

# Exhibit H

Peggy Pence, Ph.D.

Page 1

IN THE DISTRICT COURT  
438TH JUDICIAL DISTRICT  
BEXAR COUNTY, TEXAS

JENNIFER RAMIREZ F/K/A )  
JENNIFER GALINDO )  
 )  
Plaintiff, ) Cause No.  
 )  
vs. ) 2012-CI-18690  
 )  
CESAR REYES, JOHNSON & )  
JOHNSON, INC., AND )  
ETHICON, INC. )  
 )  
Defendants. )  
\_\_\_\_\_ )

THURSDAY, MARCH 24, 2016

Deposition of PEGGY PENCE, PH.D., held  
at Lopez McHugh, LLP, 100 Bayview Circle,  
Suite 5600, Newport Beach California,  
commencing at 9:36 a.m., on the above date,  
before Lisa Moskowitz, California Certified  
Shorthand Reporter No. 10816, RPR, CLR.

- - -

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<p style="text-align: right;">Page 6</p> <p>1 QUESTIONS NOT ANSWERED</p> <p>2 PAGE LINE</p> <p>3 58 12</p> <p>4 59 20</p> <p>5</p> <p>6</p> <p>7</p> <p>8</p> <p>9</p> <p>10</p> <p>11</p> <p>12</p> <p>13</p> <p>14</p> <p>15</p> <p>16</p> <p>17</p> <p>18</p> <p>19</p> <p>20</p> <p>21</p> <p>22</p> <p>23</p> <p>24</p> <p>25</p>	<p style="text-align: right;">Page 8</p> <p>1 the line? Hello? Do you have it muted?</p> <p>2 THE VIDEOGRAPHER: Counsel will</p> <p>3 be noted on the stenographic record.</p> <p>4 The court reporter is Lisa Moskowitz,</p> <p>5 and she will now swear in the witness.</p> <p>6</p> <p>7 PEGGY PENCE, PH.D.,</p> <p>8 after having been duly sworn, was examined</p> <p>9 and testified as follows:</p> <p>10 - - -</p> <p>11 MS. VERBEEK: This is Carol</p> <p>12 Verbeek. I'm sorry, I lost you.</p> <p>13 MS. SUTHERLAND: Okay. We're</p> <p>14 back.</p> <p>15 MS. VERBEEK: Okay.</p> <p>16</p> <p>17 EXAMINATION</p> <p>18 BY MS. SUTHERLAND:</p> <p>19 Q. Good morning, Dr. Pence.</p> <p>20 A. Good morning.</p> <p>21 Q. Would you please tell me your full</p> <p>22 name?</p> <p>23 A. Peggy Jo Clark Pence.</p> <p>24 Q. And your address?</p> <p>25 A. 1533 Miramar Drive, Newport Beach,</p>
<p style="text-align: right;">Page 7</p> <p>1 NEWPORT BEACH, CALIFORNIA</p> <p>2 THURSDAY, MARCH 24, 2016, 9:36 A.M.</p> <p>3</p> <p>4 THE VIDEOGRAPHER: We are now</p> <p>5 on the record. My name is Jim Lopez.</p> <p>6 I'm a videographer for Golkow</p> <p>7 Technologies. Today's date is March 24,</p> <p>8 2016, and the time is approximately</p> <p>9 9:36 a.m. This video deposition is</p> <p>10 being held in Newport Beach, California</p> <p>11 in the matter of Jennifer Ramirez aka</p> <p>12 Jennifer Galindo versus Cesar Reyes,</p> <p>13 Johnson &amp; Johnson, Inc., and Ethicon,</p> <p>14 Inc., Case Number 2012-CI-18690 for the</p> <p>15 District Court, 438th Judicial District,</p> <p>16 Bexar County, Texas. The deponent is</p> <p>17 Dr. Peggy Pence.</p> <p>18 Counsel and all present, will</p> <p>19 you please identify yourselves.</p> <p>20 MR. GOSS: Tim Goss for the</p> <p>21 plaintiff.</p> <p>22 MS. SUTHERLAND: Kari</p> <p>23 Sutherland for Ethicon and J&amp;J.</p> <p>24 THE VIDEOGRAPHER: On the line?</p> <p>25 MR. GOSS: Did we lose you on</p>	<p style="text-align: right;">Page 9</p> <p>1 California 92661.</p> <p>2 Q. And Dr. Pence, do you still have a</p> <p>3 company that you work under?</p> <p>4 A. Yes, I do.</p> <p>5 Q. And what is that company?</p> <p>6 A. Symbion, S-y-m-b-i-o-n, Research</p> <p>7 International, Incorporated.</p> <p>8 Q. And is that the company through</p> <p>9 which you're working essentially for your</p> <p>10 opinions in this case?</p> <p>11 A. That's correct.</p> <p>12 Q. All right. And you understand</p> <p>13 we're here for the Jennifer Ramirez case?</p> <p>14 A. Yes, I do.</p> <p>15 Q. I'm going to hand you what I have</p> <p>16 marked as Deposition Exhibit Number 1 which</p> <p>17 is the notice.</p> <p>18 (Exhibit Number 1 was</p> <p>19 marked for identification.)</p> <p>20 BY MS. SUTHERLAND:</p> <p>21 Q. And ask you if you have seen that</p> <p>22 document before?</p> <p>23 A. I don't recall having seen this</p> <p>24 before.</p> <p>25 Q. I'm going to bet you have seen a</p>

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<p style="text-align: right;">Page 10</p> <p>1 document similar to this before.  2 A. Yes, I have.  3 Q. All right. Did you bring some  4 stuff with you today with respect to your  5 opinions in this case?  6 A. Yes.  7 Q. And what all have you brought with  8 you?  9 A. I brought my report from April,  10 2015, and a copy of my supplemental report,  11 dated -- I think it was March 2, 2016, and  12 some copies of Global Harmonization Task  13 Force guidances, and my deposition and trial  14 testimony history.  15 Q. Oh. Let me see the GHTF's  16 guidances that you brought.  17 A. My supplemental report is in there  18 as well.  19 Q. Okay. I may not mark these because  20 I think I got them previously.  21 A. And the one you have previously is  22 actually more comprehensive. It has some of  23 the older ones as well.  24 Q. In your great binder?  25 A. Yes. That I haven't gotten back</p>	<p style="text-align: right;">Page 12</p> <p>1 Q. Yeah. And I really could not  2 remember myself. I was not trying to put  3 you on the spot.  4 Do you want this back?  5 A. Yeah, just because I can  6 double-check to make sure I'm giving you the  7 right name for the acronym.  8 Q. Thank you.  9 A. I believe it is the International  10 Medical Device Regulators Forum, but I'll  11 check. Yes. International Medical Device  12 Regulators Forum.  13 Q. Okay. And when did they, I guess,  14 come into existence and the GHTF went out of  15 existence?  16 A. It was in the 2011 to 2012 time  17 frame.  18 Q. All right. Was it before the two  19 guidances that you brought with you were  20 promulgated?  21 A. These -- well, there are other  22 guidances in here as well. These were GHTF  23 guidances. They are on the IMDRF website as  24 current documents with the notation from  25 IMDRF that they are to be considered current</p>
<p style="text-align: right;">Page 11</p> <p>1 yet.  2 Q. Golkow has?  3 A. Yes.  4 Q. All right. So what I'm looking at  5 you have a GHTF guidance document entitled  6 "Essential Principles of Safety and  7 Performance of Medical Devices," dated  8 November 2, 2012. And a GHTF final guidance  9 entitled "Principles of Conformity  10 Assessment For Medical Devices," dated  11 November 2, 2012. Correct?  12 A. Correct.  13 Q. While I'm looking at these dates,  14 I've got a question for you. Am I correct  15 that the GHTF changed to a different  16 organization in 2011?  17 A. I believe it was 2011 or 2012, yes.  18 The GHTF disbanded, and its work was  19 transferred to IMDRF.  20 Q. And tell me again what the IMDRF  21 stands for.  22 A. I know that. Medical Device  23 Regulators -- International Medical Devices  24 Regulators Forum. I believe, and I can just  25 double-check that.</p>	<p style="text-align: right;">Page 13</p> <p>1 documents and as time progresses, IMDRF will  2 reissue them as IMDRF documents. But for  3 the present time, they're GHTF documents.  4 Q. Okay. And those guidance  5 documents, the two that I called out, are  6 dated November, 2012?  7 A. They --  8 Q. And I know they're preceded by  9 others.  10 A. Yes, and they are GHTF documents,  11 though. They are not IMDRF. They were  12 documents that were produced through the  13 GHTF process.  14 Q. Were they finalized before the  15 GHTF, I guess, for lack of a better term,  16 went out of business?  17 A. I presume so since they were signed  18 off by GHTRF. So they must have been a part  19 of finalizing their final work. The  20 transition was supposed to have been in  21 2012. In that 2011/2012 time frame. 2012  22 is what I have in my report.  23 Q. Okay. I think you said GHTRF.  24 A. I'm sorry. GHTF. Sorry.  25 Q. No worries. No worries. I just</p>

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<p style="text-align: right;">Page 14</p> <p>1 want to make sure we're straight.  2 A. It stands for Global Harmonization  3 Task Force.  4 Q. Got it.  5 What else have you brought with you  6 today?  7 A. I think I have one guidance  8 document, MDA guidance document, the device  9 label guidance number G91-1 Blue Book Memo.  10 Q. Okay. Do you mind if I take a peak  11 at that?  12 A. Oh, sure.  13 Q. Okay. And that's obviously  14 referenced throughout your report on your  15 labeling opinions?  16 A. Yes.  17 Q. This is a different format for  18 printing than I have seen.  19 A. I probably didn't do the PDF  20 version.  21 Q. Did you just print this out  22 yesterday?  23 A. Yes, last night.  24 Q. All right. I'm just going to mark  25 it. I think it's the same thing, but I'm</p>	<p style="text-align: right;">Page 16</p> <p>1 A. And one in 2015. And I asked my  2 staff to pull out any additional references  3 that I hadn't already pulled out in my 2014  4 report, and I believe that's what these are.  5 Q. Okay. So if I'm following  6 correctly, what you've got sort of marked  7 here beginning with reference 217 and  8 skipping some but going up through --  9 actually 545B are references that are in  10 your 2015 TVT-O supplemental report that  11 were not in your 2014 TVT-O report?  12 A. Yes. That's my understanding.  13 That's what I asked my staff to do. I've  14 not verified it personally, but that's what  15 I understand that to be.  16 Q. And are the references that you've  17 got marked here up at the top the footnote  18 numbers?  19 A. Yes.  20 Q. All right. I'm just going to call  21 those out for the record so that I'll know  22 what they are and that way I don't think we  23 need to mark another binder of yours.  24 A. Sounds good.  25 Q. The first one is reference 217.</p>
<p style="text-align: right;">Page 15</p> <p>1 just going to mark it as Exhibit Number 2.  2 (Exhibit Number 2 was  3 marked for identification.)  4 BY MS. CAREY:  5 Q. I'll hand that back to you.  6 A. Thank you.  7 Q. And then did you tell me this  8 binder is just your TVT-O report?  9 A. Yes, with the exhibits and  10 appendices and a copy of a few references  11 that were footnoted in the -- in my report,  12 at the bottom of my report.  13 Q. Okay. Do you mind if I just take a  14 peak at that too?  15 A. Not at all.  16 Q. And it looks like your references  17 are deposition testimony that you pulled  18 out?  19 A. And there's a publication as well.  20 Q. Now, is there a particular reason  21 that you pulled out these references?  22 A. Those were additional references  23 that were -- there was a report filed for  24 TVT-O in 2014.  25 Q. Right.</p>	<p style="text-align: right;">Page 17</p> <p>1 The next one is 218. 219. 224A. 224B.  2 230. 231A. 231B. 232. 259. 313A. And  3 545B.  4 And actually, what I may do to save  5 me even more work is I might get a copy of  6 this at a break just of your references.  7 A. Okay.  8 Q. At a break. I will hand this back  9 to you. And then what was the last binder  10 that's underneath there?  11 A. Just a copy of my report. This is  12 the exhibits and the appendices, and this is  13 a copy of my report.  14 Q. Okay. And then was this second  15 binder also just a copy of the report?  16 A. That's the one you were looking at  17 that has the GHTF guidances in it that I  18 brought.  19 Q. Right.  20 A. And also my supplemental report.  21 Q. Okay. Can I see that for one more  22 minute?  23 A. Sure.  24 Q. Okay. And then it looks like  25 there's another GHTF guidance in the back</p>

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<p style="text-align: right;">Page 18</p> <p>1 entitled "Clinical Evaluation," dated 2 May 2007. 3 A. Yes. And then behind each of the 4 tabs in that binder after the supplemental 5 report are other GHTF guidances. 6 Q. Oh, okay. I see. I was getting my 7 reports mixed up. This is your -- what I 8 call your MDL supplemental report, but it's 9 your March, 2016, supplemental report? 10 A. That's correct. That's correct. 11 Q. With some guidances from GHTF 12 behind it. Which, in fairness, I think, I 13 already have from your previous deposition. 14 A. Yes. 15 Q. So I will hand that back to you. 16 A. Thank you. 17 Q. And then just because I know Madam 18 Court Reporter has been waiting on it, I'm 19 going to mark what I have as your 2014 20 report. 21 A. Okay. 22 Q. And let you just identify that for 23 me and make sure we're on the same page. 24 I've marked that as Exhibit 3. 25 ///</p>	<p style="text-align: right;">Page 20</p> <p>1 in this case on TVT-O that I've marked as 2 number 4. 3 (Exhibit Number 4 was 4 marked for identification.) 5 BY MS. SUTHERLAND: 6 Q. And it has on the front that same 7 Exhibit 3 down at the bottom. 8 A. Right. So that Exhibit 3 is 9 overwritten by this sticker Exhibit 4; is 10 that correct? 11 Q. Yeah. For this deposition, that 12 supplemental TVT-O report is Exhibit 4. 13 A. Okay. 14 Q. The yellow sticker. 15 A. Without going through it page by 16 page, it appears to be the complete report. 17 Q. Okay. And now I'm going to hand 18 you what I've marked as Exhibit 5, which I 19 understand to be your second supplemental 20 reliance list. Take a look at that. 21 (Exhibit Number 5 was 22 marked for identification.) 23 BY MS. SUTHERLAND: 24 Q. And does that appear to be your 25 reliance list for your TVT-O opinions in the</p>
<p style="text-align: right;">Page 19</p> <p>1 (Exhibit Number 3 was 2 marked for identification.) 3 THE WITNESS: This says 4 Exhibit C on the cover sheet. 5 BY MS. CAREY: 6 Q. I marked it with the yellow as 7 Exhibit 3. 8 A. Okay. 9 Q. Is Exhibit C your 2014 TVT-O 10 report? 11 A. I just wanted to be clear on the 12 Exhibit C because there is an Exhibit C -- 13 there is an Appendix C to my report. I just 14 wanted to be sure that it was the entirety 15 of the report and not just the exhibits. 16 Q. Just the Exhibit C? 17 A. Yeah. Yes, it appears -- it 18 appears -- 19 Q. Kind of thick. 20 A. Yes, it's double-sided. I'm just 21 trying to make sure that all the exhibits 22 are there and the appendices. It looks like 23 to be complete, yes. 24 Q. And then do that same thing for me, 25 if you would, for your supplemental report</p>	<p style="text-align: right;">Page 21</p> <p>1 Ramirez case, other than what you've got, 2 like, footnoted in your report? 3 A. It's cumulative. I have other 4 references that are referenced in the 5 reliance list in the report as appendices. 6 So this is -- 7 Q. In addition to that? 8 A. In addition, yes. 9 Q. All right. Do you have a reliance 10 list that's dated any later than this one, 11 March 17, 2016? 12 A. Not at this time, I don't. 13 Q. Okay. If I were to look at this 14 reliance list and the reports that we've 15 marked so far, including the appendices and 16 exhibits, would that include all of the 17 documents that you're basing your opinions 18 on? 19 A. To the best of my recollection, as 20 I sit here today, yes. 21 Q. And the report I'm about to mark, 22 which is your March, 2016, TVT-O 23 supplemental report? 24 A. Correct. 25 Q. So let me do that. I'm handing you</p>

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<p style="text-align: right;">Page 22</p> <p>1 what I've marked as Exhibit 6.  2 (Exhibit Number 6 was  3 marked for identification.)  4 THE WITNESS: I do reserve the  5 right to add to this.  6 BY MS. CAREY:  7 Q. I'm going to ask you about that.  8 Now, is Exhibit Number 6 your TVT-O  9 supplemental report dated March 2, 2016?  10 A. It is the body of the report, but  11 it is missing the exhibits.  12 Q. Actually, in fairness, it's TVT and  13 TVT-O supplemental report from March, 2016?  14 A. That's correct.  15 Q. All right. And you said that had  16 an exhibit to it?  17 A. Two exhibits.  18 Q. And I confess I evidently didn't  19 bring the second exhibit, but I've marked as  20 Exhibit Number 7 what had been marked as  21 Exhibit 1 to the TVT and TVT-O supplemental  22 report, which is applicable industry  23 standards; correct?  24 A. That's correct.  25 ///</p>	<p style="text-align: right;">Page 24</p> <p>1 A. It also has the pelvic organ  2 prolapse products. I do believe I brought a  3 copy of that. I have it here.  4 Q. Okay. So looking at what we've  5 marked as far as your reports and exhibits  6 to reports, do those encapsulate, first of  7 all, your opinions in this case?  8 A. Yes.  9 Q. All right. Do those items that  10 I've marked, not the deposition notice but  11 otherwise up to Deposition Exhibit Number 7,  12 would those all encapsulate the bases or the  13 documents that you've relied on for your  14 opinions in this case?  15 A. Yes.  16 Q. Okay. You mentioned something  17 about reserving the right to supplement your  18 numerous reports. As you sit here today, do  19 you have an intention to supplement any of  20 your reports related to TVT-O?  21 A. At the present time, I'm not  22 anticipating a supplement. If new  23 information becomes available or after  24 reviewing reports of other experts, it's  25 appropriate for me to supplement my reports,</p>
<p style="text-align: right;">Page 23</p> <p>1 (Exhibit Number 7 was  2 marked for identification.)  3 BY MS. CAREY:  4 Q. All right. And I don't know if you  5 remember, but what was Exhibit 2?  6 A. Exhibit 2 is a tabular presentation  7 of the numbers of MDR reports through 2015  8 for a number of manufacturers and certain  9 products of those manufacturers.  10 Q. That's right. And do you have a  11 similar exhibit attached to your April,  12 2015, report?  13 A. Yes. I believe it's Exhibit 3, if  14 I recall correctly. Yeah.  15 Q. And you may not know because you  16 don't have it in front of you. Is it the  17 same exhibit?  18 A. No. It's different. The Exhibit 3  19 includes -- that you're looking at includes,  20 I believe, only stress urinary continence.  21 Q. Correct.  22 A. And the one that is included in the  23 supplemental report from March 2016 is  24 updated through 2015, and it also --  25 Q. Has prolapse products?</p>	<p style="text-align: right;">Page 25</p> <p>1 then I reserve the right to do that.  2 Q. Certainly. But in fairness, as you  3 sit here today, you don't have any ideas in  4 your head of things you already want to  5 supplement?  6 A. Not at this point in time.  7 Q. Okay. And obviously, if you did  8 that, you'd let your counsel know, and he'd  9 let us know.  10 A. Of course.  11 Q. As you sit here today, other than  12 I'm sure reviewing your reports, do you have  13 any other work that you intend to do in this  14 case?  15 A. Can you clarify?  16 Q. Yeah. Do you have any other charts  17 you intend to put together for this case,  18 any other depositions you intend to review,  19 essentially any other work you intend to do  20 in this case other than obviously reviewing  21 your reports and preparing for testimony?  22 A. If there are other reports of  23 experts or other reports that are applicable  24 to the case that I've not yet seen or  25 reviewed, I perhaps would review those. If</p>

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<p style="text-align: right;">Page 26</p> <p>1 there's anything new that's presented, I 2 would review that. 3 Q. Have you asked for anything to 4 review in this case that you haven't already 5 been given? 6 A. To the best of my recollection, as 7 I sit here today, no. 8 Q. Did you review -- well, first of 9 all, the plaintiff in this case is Jennifer 10 Ramirez; right? 11 A. Yes. 12 Q. Have you reviewed her medical 13 records? 14 A. I've reviewed not all of her 15 medical records in their entirety but an 16 overview of her medical records through 17 depositions that I've reviewed of her care. 18 Q. Okay. Let me make sure I -- well, 19 do you have a listing of items specific to 20 this case that you've reviewed? You know 21 what I'm talking about? The plaintiff 22 deposition? In-plainor deposition? 23 A. I would have to look at the 24 reliance list to see if those are included. 25 Q. Do you mind? Let's just take a</p>	<p style="text-align: right;">Page 28</p> <p>1 A. Not as I sit here today. 2 Q. And when you say that you had 3 reviewed medical records, would those have 4 been the exhibits to the doctor's 5 deposition? 6 A. That's correct. 7 Q. All right. Does your reliance list 8 that I marked as Exhibit Number 5 include 9 all of the medical literature that you've 10 reviewed, or is there a separate listing of 11 the literature? 12 A. There is literature in here. 13 There's also literature in my prior reports 14 that's in my reliance list. 15 Q. As an attachment to your report? 16 A. Exhibit B in my reports includes 17 reliance list. So there's medical and 18 scientific literature included there. 19 Q. Okay. 20 A. And literature is also footnoted 21 as -- referenced as footnotes throughout the 22 body of the report as well, and then there's 23 literature that is included in the March 17, 24 2016, reliance list as well. 25 Q. All right. Is there literature</p>
<p style="text-align: right;">Page 27</p> <p>1 minute. I just want to be sure I know for 2 this particular case what you've looked at. 3 A. Okay. 4 Q. And I think I've got it on the very 5 last page of your March 17, 2015, reliance 6 list. Is that what you're looking at? 7 That's what you're looking at. 8 A. Yes. 9 Q. All right. Now -- 10 A. There is one addition. 11 Q. Okay. What's that? 12 A. And that is Jennifer Ramirez most 13 recent, if I recall correctly, as I sit here 14 today, there was a third deposition, and I 15 did -- I don't recall the -- it post dated 16 the August 2014. 17 Q. She's been deposed three times in 18 this case? 19 A. I think so, yes. 20 Q. And you reviewed that third 21 deposition? 22 A. I did. 23 Q. All right. Anything else that 24 needs to be added to your case-specific 25 reliance list?</p>	<p style="text-align: right;">Page 29</p> <p>1 that you've reviewed that would be listed 2 elsewhere other than those places you just 3 told me about? 4 A. The Appendix C to my report 5 includes summaries of certain literature. 6 In order to -- I would have to -- ideally, 7 everything that's in Exhibit -- I'm sorry, 8 Appendix C to my reports would be included 9 in my reliance list, but to verify that, I 10 would need to sit down and do a 11 double-check. 12 But if you look at Appendix C to my 13 reports, Appendix B to my reports, which is 14 the Appendix B being the reliance list and 15 the March 17, 2016, reliance list and the 16 references that are throughout my report 17 where literature is cited -- 18 Q. You think that might cover the 19 waterfront? 20 A. I'm hoping so, yes. It should, 21 yes. 22 Q. The reason I'm asking is there a 23 file that you keep at home specific to 24 pelvic mesh that might include additional 25 items other than what we've got on all your</p>

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<p style="text-align: right;">Page 30</p> <p>1 reliance lists and your appendices?</p> <p>2 MR. GOSS: Be careful. This is</p> <p>3 where Hilary Clinton got in trouble.</p> <p>4 MS. SUTHERLAND: Do you have an</p> <p>5 email server for all the secret email of</p> <p>6 plaintiff counsel -- strike that.</p> <p>7 Read back my original question.</p> <p>8 (Record read by the reporter as follows:</p> <p>9 The reason I'm asking is there a file you keep at</p> <p>10 home specific to pelvic mesh that might include</p> <p>11 additional items other than what we've got on all</p> <p>12 your reliance lists and appendices?")</p> <p>13 THE WITNESS: There are a large</p> <p>14 number of publications that are cited in</p> <p>15 the various documents that we've just</p> <p>16 been -- or that are included in the</p> <p>17 various documents that we have just been</p> <p>18 discussing. There may be other</p> <p>19 documents that I have reviewed more</p> <p>20 recently that -- looking at certain</p> <p>21 update -- you know, updated reports</p> <p>22 coming out routinely that may not have</p> <p>23 made it into the reliance list at this</p> <p>24 point in time because I do my best to</p> <p>25 stay current, but I'm becoming aware of</p>	<p style="text-align: right;">Page 32</p> <p>1 THE WITNESS: Do you want me to</p> <p>2 restate it?</p> <p>3 MR. GOSS: Yes.</p> <p>4 MS. SUTHERLAND: Yeah.</p> <p>5 BY MS. SUTHERLAND:</p> <p>6 Q. Is there a piece of medical</p> <p>7 literature, peer-reviewed publication,</p> <p>8 that's come out in the past six months</p> <p>9 specific to TVT-O that is of significance to</p> <p>10 you in your opinions in this case?</p> <p>11 MR. GOSS: Objection. Form.</p> <p>12 THE WITNESS: You're talking</p> <p>13 about solely scientific literature?</p> <p>14 BY MS. SUTHERLAND:</p> <p>15 Q. Yes, ma'am.</p> <p>16 A. There continues to be. I can't</p> <p>17 speak to the six months specifically without</p> <p>18 looking back at literature and confirming</p> <p>19 it's within the last six months. There</p> <p>20 continues to be literature published that</p> <p>21 substantiates my opinions.</p> <p>22 Q. Okay. Give me an example -- the</p> <p>23 reason I'm asking is just to see if there's</p> <p>24 something that has come out recently that</p> <p>25 might not be on your reliance list that</p>
<p style="text-align: right;">Page 31</p> <p>1 new literature all the time.</p> <p>2 So it may be that there are</p> <p>3 publications that have not yet made it</p> <p>4 into a reliance list that I do have in</p> <p>5 my files at home. I try to be as</p> <p>6 comprehensive as possible, but as you</p> <p>7 can see --</p> <p>8 BY MS. SUTHERLAND:</p> <p>9 Q. It's extensive.</p> <p>10 A. -- it's extensive.</p> <p>11 Q. If there was new stuff, are you</p> <p>12 talking about things that might have come</p> <p>13 out within the past six months or so that</p> <p>14 might just not have made it to the list yet?</p> <p>15 A. Yes. Or even within the last year</p> <p>16 that I just may not have had an opportunity</p> <p>17 to review yet or am in the process of</p> <p>18 reviewing.</p> <p>19 Q. With respect to TVT-O, is there any</p> <p>20 piece of literature that's come out</p> <p>21 within -- I'm going to limit it to six</p> <p>22 months -- that was of significance to you</p> <p>23 and your opinions in this case?</p> <p>24 MR. GOSS: I'm sorry. Can you</p> <p>25 say that --</p>	<p style="text-align: right;">Page 33</p> <p>1 you're thinking of today.</p> <p>2 A. For example, I believe it's</p> <p>3 Dr. Ross and the publication that's</p> <p>4 five-year results of a study that she had</p> <p>5 done with obturator versus -- if I recall</p> <p>6 correctly, it wasn't the Ethicon product but</p> <p>7 another obturator -- transobturator sling</p> <p>8 versus the retropubic sling approach. Her</p> <p>9 publication.</p> <p>10 That, I've just recently reviewed</p> <p>11 in the last couple of weeks. Things of that</p> <p>12 nature. But nothing that has changed my</p> <p>13 opinions but provides further support for my</p> <p>14 opinions.</p> <p>15 Q. And do you do, like, a weekly</p> <p>16 PubMed search to find new literature?</p> <p>17 A. No. I don't do it weekly.</p> <p>18 Q. How often do you do a literature</p> <p>19 search to make sure you're getting the most</p> <p>20 up-to-date literature that might address</p> <p>21 pelvic mesh?</p> <p>22 A. Periodically. I don't have a set</p> <p>23 schedule but periodically.</p> <p>24 Q. When's the last time, for instance,</p> <p>25 that you did a PubMed search?</p>

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<p style="text-align: right;">Page 34</p> <p>1 A. Probably within the last two 2 months. 3 Q. And do you do something besides 4 PubMed? 5 A. I do ask counsel if there's any new 6 literature that they're aware of as well 7 that would be important for me to review. 8 So that's -- I do look for, for example, 9 Cochran reviews, things of that nature. 10 Q. Now, I had limited my question to 11 literature, and you had specifically asked 12 me about that. Is there another document 13 that's come out recently specific to your 14 opinions on TVT-O that you were thinking of? 15 A. The FDA -- and unfortunately, I 16 don't have the binder because it's one of 17 the ones that's with Golkow that I don't 18 have back, but there was an advisory 19 committee meeting in February of this year 20 to discuss and make recommendations whether 21 or not to reclassify the instruments that 22 are used in the insertion of the medical 23 devices in stress urinary incontinence 24 devices, for example, to reclassify those 25 from Class 1 to Class 2.</p>	<p style="text-align: right;">Page 36</p> <p>1 Class 2 device. They were reviewed, I 2 should say, in the same framework as a 3 Class 2 device. 4 BY MS. SUTHERLAND: 5 Q. Okay. Let me make sure I'm on the 6 same page with you for that. 7 For the instruments that are within 8 the TVT-O kit -- 9 A. That's correct. 10 Q. -- for insertion, were those 11 instruments already reviewed as Class 2 12 because they were part of the 510(k) 13 submission on TVT-O? 14 A. Yes. Yes. But if they were -- if 15 they were to be manufactured separately 16 outside of a kit, they would no longer be 17 considered Class 1. They would be 18 considered a Class 2 as part of the 510(k). 19 Q. Well, actually, have they been 20 reclassified? 21 A. No. There's a recommendation. As 22 we know, that takes -- that's a process. 23 Q. Some time. 24 A. It takes some time. But if, in 25 fact, FDA makes a determination that they</p>
<p style="text-align: right;">Page 35</p> <p>1 Q. And was that a panel meeting? 2 A. Yes, it was. 3 Q. And were there recommendations made 4 by the panel? 5 A. Yes. If I recall correctly, and I 6 wish I had that document with me, but if I 7 recall correctly, the recommendation was to 8 reclassify those insertion instruments, 9 those types of medical devices as Class 2. 10 Q. All right. Now, how would that, if 11 it would, impact the TVT-O and your opinions 12 on TVT-O? 13 MR. GOSS: Objection. Form. 14 THE WITNESS: They were still 15 reviewed, the instruments for insertion 16 for TVT-O were included in the review of 17 the -- in the 510(k). So they were 18 included in the 510(k), reviewed for 19 clearance of the TVT-O. 20 But the instruments by 21 themselves had previously been 22 classified as Class 1. When they're 23 reviewed as a part of the 510(k), then 24 they're reviewed. Obviously, they were 25 included in the 510(k) submission as a</p>	<p style="text-align: right;">Page 37</p> <p>1 will reclassify those instruments and they 2 reclassify them as Class 2, then they 3 become, if I recall correctly, the 4 recommendation would be that they would 5 require a 510(k) submission. 6 Q. Okay. Does Ethicon sell the 7 instruments separately? Do you know? 8 A. As far as I know as regards to 9 TVT-O, they're sold in the kit. 10 Q. In the kit. 11 A. Yeah. 12 Q. All right. So just with respect to 13 the TVT-O, would I be correct that even if 14 those instruments were reclassified as 15 Class 2, would that impact TVT-O? 16 A. I think the real point is that the 17 instruments-- if I recall correctly -- do 18 you have a copy of the 510(k)? 19 Q. I don't. He may. 20 A. If I recall correctly, I'd have to 21 look specifically in the TVT-O 510(k), but 22 many times you will see in the 510(k) that 23 the instruments are discussed as Class 1 24 devices by the manufacturer. They are 25 reviewed -- when it's -- when they are</p>

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<p style="text-align: right;">Page 38</p> <p>1 submitted as a part of a kit, obviously, a  2 510(k) has been submitted. The FDA is  3 looking at the instruments as a part of the  4 510(k).  5 So even though they may have been  6 on their own considered Class 1 devices, the  7 FDA is looking at them within the framework  8 of the context of a 510(k). I think the  9 significance of the finding or the  10 recommendation, I should say, of the  11 advisory committee is that the instruments  12 require more than general controls, if they  13 require special controls to provide a  14 reasonable assurance of safety and  15 effectiveness which is the criteria to  16 define a Class 2 device, that there are --  17 that the instruments themselves, safety and  18 effectiveness issues need to be addressed  19 for the instruments as well.  20 Q. And so would Ethicon need to do  21 something different with the TVT-O if those  22 instruments got reclassified?  23 A. At this point in time, all I've  24 seen that's been published that I've seen is  25 the recommendations from the advisory</p>	<p style="text-align: right;">Page 40</p> <p>1 A. Oh, I'm sorry.  2 Q. Were you asked by FDA to be on the  3 advisory panel?  4 A. No.  5 Q. Was there more than one advisory  6 panel or just one?  7 A. There was -- for this, my  8 understanding it was the latter part of  9 February, and there was, to my knowledge, as  10 I sit here today, there was one.  11 Q. Okay. And do you know which panel  12 it was? And I'm sorry I don't have the  13 document in front of me. I just don't know  14 if you recall.  15 A. Yes. I believe it was -- had to do  16 with urology, but I would have to look it  17 up. As I say, it's in the binder that I  18 still don't have back.  19 Q. You keep throwing that out there.  20 Come on. We'll get it back.  21 Let me ask you a follow-up on  22 something you just said. As I understand  23 it, you said the instruments had been  24 Class 1, and Class 1 are devices for which  25 general controls are sufficient --</p>
<p style="text-align: right;">Page 39</p> <p>1 committee. Since these were marketed as  2 part of the kit, I don't anticipate that,  3 but I don't know until we see what FDA does,  4 unless they were to be marketed separately  5 from the mesh, for example --  6 Q. Okay.  7 A. -- then they would require a  8 separate 510(k). But until FDA makes a  9 determination --  10 Q. We don't know yet.  11 A. -- we don't know yet. And it might  12 be that FDA might come back and say, "We'd  13 like to see more information about the  14 insertion tools."  15 Q. Or they may not.  16 A. Or they may not. Exactly. It's  17 too early to tell, but certainly that was an  18 important advisory committee meeting in the  19 context of the TVT-O and other devices such  20 as this.  21 Q. Did you attend the advisory  22 committee meeting?  23 A. No, I didn't.  24 Q. I'm sorry. You shook your head  25 yes, but you said no.</p>	<p style="text-align: right;">Page 41</p> <p>1 A. Yes.  2 Q. -- to demonstrate safety and  3 efficacy.  4 A. Correct.  5 Q. All right. And then Class 2  6 devices, such as the TVT-O, are devices  7 where you need not only the general  8 controls, but there are special controls in  9 order to demonstrate safety and efficacy;  10 correct?  11 A. That's correct.  12 Q. All right. What are the special  13 controls applicable to, for instance, a  14 device like the TVT-O to demonstrate safety  15 and efficacy so that the FDA can clear it?  16 A. It varies by device. For example,  17 there can be a special guidance documents or  18 various -- various procedures that are  19 required. There can be certain types of --  20 in some cases, certain types of labeling  21 requirements. There are some types of  22 post-market surveillance, certain types of  23 special controls. There is the guidance  24 document, as you know, for the surgical  25 meshes.</p>

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<p style="text-align: right;">Page 42</p> <p>1 Q. I was going to ask, is that the '99 2 surgical mesh guidance that you're talking 3 about? 4 A. Yes. That would be one. 5 Q. That would be one example of a 6 special control applicable to TVT-O? 7 A. That's correct. 8 Q. All right. Are there others 9 applicable to TVT-O? 10 A. I would have to look at the 11 classification index, for example, certain 12 standards like the ISO standards, voluntary 13 consensus standards, those can be -- certain 14 types of consensus standards. I need to 15 look at the classification regulation and 16 refresh my memory on that as to whether or 17 not there are any of those cited. The key 18 one, as I recall, is the 1999 guidance 19 document. 20 Q. Okay. And I'll be candid with you. 21 I'm not aware of another special control, 22 but I didn't know if you might know one off 23 the top of your head. 24 A. Well, in the guidance, in the 25 March 1999 guidance, I don't have a copy</p>	<p style="text-align: right;">Page 44</p> <p>1 A. 55. 2 Q. 55? I was thinking 77. Is it 3 14155? Which ISO standard is that? 4 A. That is the clinical 5 investigations. Which one are you -- 6 Q. I was thinking of a different one. 7 We'll come to it. All right. I got off my 8 outline as I tend to do. 9 A. No worries. 10 Q. Which lawyers are you working for 11 in this case? 12 A. Mr. Goss. 13 Q. And have you worked for Mr. Goss 14 before? 15 A. I have. 16 Q. About how many cases have you 17 worked with him on? 18 A. For mesh? 19 Q. I'll start with for mesh. 20 A. To the best of my recollection -- 21 Q. You have a list. 22 A. I have a list. I can actually 23 verify my memory. At this point in time, it 24 appears to be five. 25 Q. Okay. And I'm glad you pulled that</p>
<p style="text-align: right;">Page 43</p> <p>1 here in front of me, but it discusses 2 biocompatibility, for example, and the ISO 3 standard. So by inference, some of the 4 standards such as ISO standards are 5 addressed by the guidance document. 6 Q. Okay. And the ISO standards that 7 are referenced in that surgical mesh 8 guidance, am I correct that those have been 9 specifically adopted by FDA? 10 A. I'm sorry. Say again. 11 Q. Sure. The ISO standards that 12 you're referencing from the '99 surgical 13 guidance on surgical mesh, have those been 14 specifically adopted by FDA? 15 A. FDA actually has its own guidance 16 document where it discusses the ISO 17 standards. So that is, to the best of my 18 recollection, those have been adopted, but 19 it has its own -- generally speaking, they 20 have been adopted, but FDA also has its own 21 guidance document that addresses the ISO 22 1099-3 standard for biocompatibility. 23 Q. Okay. And then I'm thinking of 24 another ISO standard for some reason. Is 25 there a 141 --</p>	<p style="text-align: right;">Page 45</p> <p>1 out. I'm going to mark that actually as 2 Exhibit 8, and I'm marking as Exhibit 8 your 3 deposition and trial testimony; is that 4 correct? 5 A. Yes. 6 (Exhibit Number 8 was 7 marked for identification.) 8 BY MS. SUTHERLAND: 9 Q. All right. Now, does this list, 10 your deposition and trial testimony, it 11 looks like from October of 2009? 12 A. I'm sorry. What was that question 13 again? 14 Q. Does this list, your deposition and 15 trial testimony, Exhibit 8, as of October, 16 2009? 17 A. Yes. That was my first deposition 18 that I've ever given. 19 Q. And that's up through, it looks 20 like, December 2015? 21 A. Yes. For trial testimony. And 22 deposition testimony is there as well. So 23 my deposition from two weeks ago is not 24 included -- 25 Q. Right.</p>

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<p style="text-align: right;">Page 46</p> <p>1 A. -- yet.</p> <p>2 Q. Are there -- so it looks like your</p> <p>3 deposition testimony ends in November</p> <p>4 of 2015 on Exhibit 8.</p> <p>5 A. Yes.</p> <p>6 Q. Is the deposition that I did of you</p> <p>7 two weeks ago the only deposition that</p> <p>8 you've given to date in 2016?</p> <p>9 A. Can I just take a look at that?</p> <p>10 Q. Oh, sure.</p> <p>11 A. Time goes so quickly. I have to</p> <p>12 stop and think.</p> <p>13 Q. Yeah, I know. We're just in March.</p> <p>14 A. I know. To the best of my</p> <p>15 recollection, as I sit here today, that's</p> <p>16 correct.</p> <p>17 Q. Okay. Just the one I did two weeks</p> <p>18 ago?</p> <p>19 A. Yes, that's correct.</p> <p>20 Q. You can keep that in front of you.</p> <p>21 I'm going to ask you a few more questions</p> <p>22 while we're on the topic.</p> <p>23 In looking at Exhibit 8, are you</p> <p>24 able to tell me how many times you've</p> <p>25 testified at trial in a pelvic mesh case?</p>	<p style="text-align: right;">Page 48</p> <p>1 A. TVT-O?</p> <p>2 Q. TVT-O.</p> <p>3 A. Batiste. Batiste. I think</p> <p>4 that's -- those are the products for</p> <p>5 Ethicon, and then for Boston Scientific, it</p> <p>6 would have been Obtryx.</p> <p>7 Q. Is that a sling?</p> <p>8 A. Yes. And Pinnacle.</p> <p>9 Q. Is Pinnacle a sling?</p> <p>10 A. No.</p> <p>11 Q. It's a prolapse?</p> <p>12 A. It's a pelvic organ prolapse</p> <p>13 device.</p> <p>14 Q. All right. So for sling cases</p> <p>15 where you've testified at trial, am I right</p> <p>16 that it's the Align, the TVT-O, Obtryx, and</p> <p>17 the Abbrevio?</p> <p>18 A. Yes. And also for Boston</p> <p>19 Scientific and the Scherer trial, it also</p> <p>20 included the Solyx.</p> <p>21 Q. Is that a sling?</p> <p>22 A. Yes. It's a single-incision sling.</p> <p>23 Q. Okay. And that was a trial?</p> <p>24 A. Yes.</p> <p>25 Q. Now, have you given deposition</p>
<p style="text-align: right;">Page 47</p> <p>1 A. I believe it's nine but just let me</p> <p>2 check that. Yes, nine.</p> <p>3 Q. Okay. Nine trials?</p> <p>4 A. Nine trials.</p> <p>5 Q. For pelvic mesh?</p> <p>6 A. Yes.</p> <p>7 Q. And how many mesh manufacturers has</p> <p>8 that involved?</p> <p>9 A. Three.</p> <p>10 Q. And who are they?</p> <p>11 A. Ethicon, Boston Scientific, and</p> <p>12 Bard.</p> <p>13 Q. All right.</p> <p>14 A. CR Bard.</p> <p>15 Q. And which products have you</p> <p>16 testified at trial for?</p> <p>17 A. That would include for Bard, the</p> <p>18 Align. Discussion about Avaulta came up,</p> <p>19 but it was principally Align.</p> <p>20 Q. Is Align a sling or a prolapse?</p> <p>21 A. It's a sling.</p> <p>22 Q. Okay.</p> <p>23 A. And for Ethicon, it's included</p> <p>24 Prolift, Prosima, TVT Abbrevio, TVT-O.</p> <p>25 Q. What trial was that?</p>	<p style="text-align: right;">Page 49</p> <p>1 testimony in cases involving additional</p> <p>2 products for pelvic mesh?</p> <p>3 A. Yes.</p> <p>4 Q. Can you tell me what those are?</p> <p>5 A. Yes. For Boston Scientific, that</p> <p>6 would have included the Uphold, which is a</p> <p>7 pelvic organ prolapse device, and the</p> <p>8 Prefix, which is a sling.</p> <p>9 And for Ethicon, we already</p> <p>10 addressed Prolift and Prosima. So those are</p> <p>11 the two pelvic organ prolapse devices. I</p> <p>12 think the only other sling about which I</p> <p>13 have given deposition testimony is TVT from</p> <p>14 Ethicon.</p> <p>15 Q. Okay.</p> <p>16 A. And then we've already addressed</p> <p>17 Bard.</p> <p>18 Q. Okay. So no additional products in</p> <p>19 deposition testimony for Bard?</p> <p>20 A. No. As I mentioned, I had an</p> <p>21 Avaulta report which was the focus of the --</p> <p>22 the focus of the deposition was Align, but</p> <p>23 their Avaulta was also discussed, and my</p> <p>24 report for Avaulta was also incorporated in</p> <p>25 that deposition as an exhibit.</p>

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<p style="text-align: right;">Page 50</p> <p>1 Q. And is Avaulta a sling?</p> <p>2 A. No. It's an pelvic organ prolapse</p> <p>3 device.</p> <p>4 Q. Okay. I'm just trying to make sure</p> <p>5 I've got all the sling devices where you've</p> <p>6 offered deposition or trial testimony, and</p> <p>7 let me see if I've got them.</p> <p>8 A. Okay.</p> <p>9 Q. I have Align, TVT-O, Obtryx, TVT</p> <p>10 Abbrevio, Solyx, Prefix, and TVT.</p> <p>11 A. Yes.</p> <p>12 Q. Okay. And those are from three</p> <p>13 different manufacturers?</p> <p>14 A. That's correct.</p> <p>15 Q. All right. Does AMS also make a</p> <p>16 sling product or they did?</p> <p>17 A. Yes.</p> <p>18 Q. All right. Other than -- have you</p> <p>19 offered any opinions in any AMS case?</p> <p>20 A. No, I have not.</p> <p>21 Q. Okay. Is there another mesh</p> <p>22 manufacturer that makes a sling?</p> <p>23 A. There are other manufacturers, yes,</p> <p>24 that make slings. Those --</p> <p>25 Q. Have you reviewed any of those</p>	<p style="text-align: right;">Page 52</p> <p>1 A. No.</p> <p>2 Q. Okay. I'm not meaning that to be a</p> <p>3 trick question. For instance, like if a</p> <p>4 sling was a predicate for one of these other</p> <p>5 products, typically that IFU is within the</p> <p>6 510(k); right?</p> <p>7 A. Yes. If you're talking about that,</p> <p>8 yes. In reviewing the 510(k)s. I'm sorry.</p> <p>9 I understood your question to be separately.</p> <p>10 Q. Yeah, and I'm not trying to, you</p> <p>11 know, trick you up on that. But as you sit</p> <p>12 here today, for instance, in addition to</p> <p>13 these seven, would you have reviewed the</p> <p>14 ProteGen IFU as it's the predicate for TVT?</p> <p>15 A. I don't recall. I would have to</p> <p>16 look back at the 510(k) to see if the</p> <p>17 ProteGen IFU was included.</p> <p>18 Q. Okay. I think it was, but as you</p> <p>19 sit here today, you don't recall?</p> <p>20 A. I would have reviewed it if it was,</p> <p>21 yes.</p> <p>22 Q. Do you recall any other IFUs that</p> <p>23 might have been within the 510(k)s of these</p> <p>24 seven other products that you might have</p> <p>25 reviewed?</p>
<p style="text-align: right;">Page 51</p> <p>1 manufacturers' documents?</p> <p>2 A. No, I have not.</p> <p>3 Q. All right.</p> <p>4 A. Other than in the context of doing</p> <p>5 my report for the products that we've</p> <p>6 discussed, I do do research and go online</p> <p>7 and look at 510(k) summaries of safety and</p> <p>8 effectiveness for certain devices.</p> <p>9 I've obviously looked at MDR</p> <p>10 reports, which are included in a number of</p> <p>11 my reports. So publicly available</p> <p>12 information or information that might be in</p> <p>13 some of the records that have been produced</p> <p>14 during discovery for the various cases.</p> <p>15 I may have reviewed information</p> <p>16 about some of the slings or press releases</p> <p>17 or information that's publicly available,</p> <p>18 but in terms of have I worked on other</p> <p>19 manufacturers' sling products in the context</p> <p>20 of reviewing confidential documents to --</p> <p>21 and arrive at opinions, no, I have not done</p> <p>22 that.</p> <p>23 Q. Have you reviewed that you can</p> <p>24 recall any IFUs for slings other than the</p> <p>25 seven that you and I have talked about?</p>	<p style="text-align: right;">Page 53</p> <p>1 A. The predicate -- the predicate</p> <p>2 devices for those products.</p> <p>3 Q. Okay. I mean, do you recall what</p> <p>4 they were?</p> <p>5 A. Well, certainly, TVT-O's predicates</p> <p>6 were the TVT, the TVT device.</p> <p>7 Q. Yeah. But you reviewed that</p> <p>8 because that's one of your products; right?</p> <p>9 A. Exactly. And then similarly -- let</p> <p>10 me just take a moment. So --</p> <p>11 Q. Can I tell you why I'm asking that?</p> <p>12 A. Sure. Sure.</p> <p>13 Q. I'm just asking if there's one that</p> <p>14 stands out to you that you know you reviewed</p> <p>15 that's not one of these seven sling products</p> <p>16 that you and I have already talked about.</p> <p>17 A. No. Many of them, as you know,</p> <p>18 they all go back -- they go back ultimately</p> <p>19 to the ProteGen.</p> <p>20 Q. Right.</p> <p>21 A. Ultimately in the hierarchy and the</p> <p>22 substantial equivalence decision tree, is</p> <p>23 they typically all go back to the ProteGen</p> <p>24 because then TVT relied on the ProteGen for</p> <p>25 its clearance, and then some of these later</p>

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<p style="text-align: right;">Page 54</p> <p>1 devices reference -- including TVT-O  2 references the TVT.  3 And the advantage I would have --  4 for example, the Advantage meshes, I would  5 have reviewed their -- for Boston  6 Scientific, I would have reviewed their  7 IFUs.  8 Q. Is Advantage a sling?  9 A. Yes. Advantage and Advantage Fit.  10 I would have reviewed those.  11 Q. All right. And Advantage Fit?  12 A. Yes.  13 Q. Any others that kind of pop in your  14 mind?  15 A. Without checking back, I can't  16 recall for sure. I may have -- I may have  17 looked at Monarc or --  18 Q. SPARC?  19 A. Pardon me?  20 Q. SPARC?  21 A. SPARC possibly. MiniArc. Without  22 checking back, I can't confirm, but I may  23 have looked at those.  24 Q. Okay. All right. And so now as we  25 sit here today, we've got one, two, three,</p>	<p style="text-align: right;">Page 56</p> <p>1 A. The ones that I have reviewed, and  2 I have not -- for some of these products  3 where I have not done an updated report, if  4 there have been changes since I last opined  5 about it, I may not have seen any updates to  6 labeling to the IFUs.  7 For those that I have seen, for  8 example, the TVT-O, there are improvements,  9 and some of the information that I, in fact,  10 included in my reports going back to even,  11 if I recall correctly, 2013, information  12 that I documented then that should have been  13 included in the IFU has since been included.  14 Q. Is it adequate?  15 A. No. And as I stated in my  16 supplemental report, which we've marked as  17 Exhibit 6, there are still -- there is still  18 missing information as regards safety and  19 risk even in the updated 2015 IFU for TVT-O.  20 Q. Okay. So to get a clean question  21 and answer, if I could, is there any IFU  22 that you've reviewed, even up to the present  23 day, that you consider adequate?  24 A. No.  25 Q. Okay. And I don't know if I -- I</p>
<p style="text-align: right;">Page 55</p> <p>1 four, five, six, seven, eight, nine slings  2 where you think you've reviewed the IFU for  3 those slings?  4 A. Yes.  5 Q. All right. Now, out of those nine,  6 did you ever determine that the IFU was  7 adequate?  8 A. No. I found them all to be  9 inadequate.  10 Q. All right. Is there any IFU for a  11 sling product today that you believe is  12 adequate?  13 A. There are some that are improved  14 over what they were, but they're still --  15 for example, in the --  16 Q. Can I get a yes or no to the  17 question first? Are there any IFUs for a  18 sling product today that you believe are  19 adequate?  20 A. Well, as we already mentioned, I  21 have not reviewed all sling IFUs.  22 Q. The ones you have.  23 A. So I can only speak to the ones  24 that I have reviewed.  25 Q. Right.</p>	<p style="text-align: right;">Page 57</p> <p>1 was talking about sling IFUs. You knew  2 that; right?  3 A. Yes. Yes.  4 Q. All right. What is your hourly  5 rate for work?  6 A. \$500 an hour.  7 Q. Is that for deposition and review  8 of documents?  9 A. Yes.  10 Q. All right. Are you charging 500 an  11 hour today?  12 A. Yes.  13 Q. Do you have a -- if you're here all  14 day, do you have an amount that you charge  15 for the entire day that's different than  16 your hourly rate?  17 A. No.  18 Q. Did you meet with plaintiff counsel  19 before today in order to prepare for your  20 deposition?  21 A. Yes.  22 Q. All right. What did you do when  23 you met with him?  24 MR. GOSS: Are you asking her  25 what we talked about?</p>

15 (Pages 54 to 57)

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<p style="text-align: right;">Page 58</p> <p>1 BY MS. SUTHERLAND:  2 Q. What did you review?  3 MR. GOSS: What did you review?  4 Okay.  5 THE WITNESS: We talked about  6 GHTF.  7 MR. GOSS: Wait a minute.  8 THE WITNESS: Oh, sorry.  9 BY MS. SUTHERLAND:  10 Q. Keep going, though.  11 No, what documents did you review?  12 MR. GOSS: Listen, I'm going to  13 instruct you not to answer that  14 question. There's an agreement, as I  15 understand it, that we're not getting  16 into each other's discussions with  17 experts beforehand and what we showed  18 experts beforehand. That's my  19 understanding. If you want to --  20 MS. SUTHERLAND: I'll check at  21 a break because I don't know.  22 MR. GOSS: At a break, maybe if  23 you want to check but --  24 MS. SUTHERLAND: Right now  25 you're instructing her?</p>	<p style="text-align: right;">Page 60</p> <p>1 BY MS. SUTHERLAND:  2 Q. How many times did you meet with  3 counsel to prepare for your deposition  4 today?  5 A. Just once.  6 Q. And when was that?  7 A. Yesterday afternoon.  8 Q. And how long did you all meet?  9 A. Two-and-a-half to three hours.  10 Q. And where did you meet?  11 A. Here.  12 Q. How much time have you put into the  13 Jennifer Ramirez case?  14 A. In anticipation of your asking me  15 that, I attempted to evaluate that last  16 night. As you know, there's a lot of  17 crossover between the reports and what's  18 relevant to her case as well. Specific to  19 her case and, as you know, also this case  20 has been continued a couple of times and, in  21 fact, preparing for deposition on another  22 occasion and it ended up being canceled  23 towards the time that it was supposed to  24 occur, if I'm recalling correctly as I sit  25 here today.</p>
<p style="text-align: right;">Page 59</p> <p>1 MR. GOSS: Right now I'm  2 instructing her not to answer because I  3 certainly know there's agreements about,  4 you know, drafts reports and things like  5 that.  6 MS. SUTHERLAND: I'm not asking  7 about draft reports. I was asking her  8 what she looked at to prepare for her  9 deposition today, and if you're  10 instructing her not to answer that --  11 MR. GOSS: I'm instructing her  12 not to answer. I object to foundation  13 and --  14 MS. SUTHERLAND: -- then I'll  15 ensure that we're on the same page.  16 MR. GOSS: -- I'm instructing  17 her not to answer.  18 BY MS. SUTHERLAND:  19 Q. Well, did you review any documents  20 to prepare for your deposition today?  21 MR. GOSS: Same objection.  22 MS. SUTHERLAND: Are you  23 instructing her not to answer that?  24 MR. GOSS: Instructing Ms.  25 Pence not to answer.</p>	<p style="text-align: right;">Page 61</p> <p>1 So I went back and looked at that  2 time, and to the best I'm able to estimate  3 it at this point in time, it was  4 approximately 107 hours specific for this  5 case.  6 Q. Okay. Now, would that include, for  7 instance, time spent on your supplemental  8 TVT-O report from March, 2016?  9 A. No.  10 Q. All right. So that would be --  11 since this is now part of your opinions in  12 this case, would that be additional time?  13 A. Yes.  14 Q. Do you know how much that would be?  15 A. I think at the last deposition that  16 I included the preparation for this in  17 the -- in a total of time that I gave you  18 because I put two supplemental reports  19 together in close proximity, and I didn't  20 separate out how much time for this report  21 specifically. I haven't billed for that  22 yet; so I can't give you a specific answer.  23 Q. Have you submitted any invoices for  24 the Jennifer Ramirez case?  25 A. No.</p>

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<p style="text-align: right;">Page 62</p> <p>1 Q. Are you hoarding them up to give 2 them one painful invoice at the end? 3 A. I often -- I often wait until a 4 case is finished or a project is finished 5 and bill at the end. That's one way that I 6 frequently bill. 7 Q. And you keep up with your hours 8 how? Since this case has been going on for 9 so long, how do you keep up with your hours 10 on it? 11 A. They get recorded -- ultimately, 12 they get recorded from -- I document my 13 hours, and then they get put into 14 QuickBooks. 15 Q. Okay. And have other people at 16 Symbion billed on the Jennifer Ramirez case? 17 A. Yes. 18 Q. And are you including their time in 19 your time when you tell me about 107 hours? 20 A. No. That's my time. 21 Q. All right. Do you know how much 22 time -- first of all, let me ask you this: 23 How many other people have worked on the 24 Jennifer Ramirez case for you? 25 A. Again, because this has been</p>	<p style="text-align: right;">Page 64</p> <p>1 actually totalling it. 2 Q. Do you know if it's more than 3 a million? 4 MR. GOSS: Objection. Form. 5 THE WITNESS: Not without going 6 back and tallying it. I don't think 7 it's more than a million, but I wouldn't 8 want to rely on that with great fact in 9 doing my calculations. 10 BY MS. SUTHERLAND: 11 Q. Okay. Do you have that information 12 available in your QuickBooks? 13 A. Yes. 14 Q. All right. And so that's -- would 15 it be an undue burden to find that out for 16 me? 17 A. Sure. I can find that out. 18 Q. Mean it would not be an undue 19 burden? 20 A. No. I'm sorry. 21 Q. No worries. 22 And when I talk about the pelvic 23 mesh litigation against Ethicon and J&amp;J, you 24 know I'm talking about both your work on the 25 prolapse products as well as the sling</p>
<p style="text-align: right;">Page 63</p> <p>1 ongoing for probably a couple of years, if I 2 recall correctly, I would need to go back 3 and just double-check, but I would 4 anticipate that or I would believe that at 5 least -- at least three to four other people 6 have worked on this case at one point in 7 time or another. 8 Q. Okay. You don't know, like, a 9 ballpark of their hours? 10 A. No. I didn't look at that. 11 Q. Okay. Is that something you could 12 look at? 13 A. Yes. 14 Q. Do you know overall how many hours 15 you've put in to the pelvic mesh litigation 16 against Ethicon and J&amp;J? 17 A. No. 18 MR. GOSS: Objection. Form. 19 THE WITNESS: Not without going 20 back and tallying it. 21 BY MS. SUTHERLAND: 22 Q. Okay. Do you know how much money 23 you've billed for in the pelvic mesh 24 litigation against Ethicon and J&amp;J? 25 A. Again, not without going back and</p>	<p style="text-align: right;">Page 65</p> <p>1 products? 2 A. Yes. Yes. 3 Q. Okay. Do you know how many 4 documents you've reviewed in the pelvic mesh 5 litigation for Ethicon and J&amp;J? 6 A. Thousands. 7 Q. Okay. Do you know how many 8 documents Ethicon and J&amp;J have produced in 9 the pelvic mesh litigation? 10 A. I'm sure it's millions. As you can 11 see from the size of the Appendices B and 12 the reliance list that we've just discussed 13 today, over the period of time, I'm sure 14 I've reviewed over the period of since 2012 15 working on Ethicon mesh litigation, when I 16 say thousands, I'm not talking about a 17 couple of thousand. Huge numbers of 18 documents and huge numbers of pages. 19 Q. If Ethicon and J&amp;J have produced 20 nearly 25 million pages of documents in this 21 litigation, do you know, just ballpark, what 22 your number of pages would compare with 23 that? 24 MR. GOSS: Objection. Form. 25 THE WITNESS: I don't know what</p>

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<p style="text-align: right;">Page 66</p> <p>1 percentage. I know -- you can see from  2 the volume the size of the -- I'll just  3 reiterate what I said a few moments ago,  4 you can see from the volume of the  5 reliance list the numbers of documents  6 that have been reviewed.  7 BY MS. SUTHERLAND:  8 Q. Do you think it's been a million  9 pages?  10 A. It may be. I just don't have a  11 number to give you. I can only say it's  12 been a very large volume of documents, and I  13 have cabinets full of binders as well as  14 what I have archived electronically.  15 I have multiple cabinets full of  16 binders of TVT and TVT-O and Prolift and  17 Prosima and TVT Abbrevio.  18 Q. And those multiple binders you're  19 talking about would be on the exhibit lists,  20 the reliance lists that we've marked today?  21 A. Yes. Yes. Because I'm still old  22 school enough that I like to use hard copy  23 as well as electronic copies.  24 Q. Do you know that you have not  25 reviewed all of the documents produced by</p>	<p style="text-align: right;">Page 68</p> <p>1 been around 5 percent or less in 2008, and  2 then over the period of time, it moved to  3 maybe 20 percent. And because, as we were  4 discussing earlier, the mesh litigation is  5 so large, and there's been -- it's at a  6 point in time when there are so many cases  7 going to trial and so much happening in the  8 litigation that my time involved in  9 litigation work has certainly increased over  10 the last -- over the last couple of years.  11 I think my testimony -- I may have  12 said maybe greater than 50 percent, and it  13 depends really on the -- what's going on,  14 what's happening at any particular time.  15 Sometimes it's higher than that. Sometimes  16 it may be less than that.  17 I'm teaching, and I'm getting ready  18 to start class again. When I'm teaching,  19 that takes up a large part of my time, and I  20 work on other projects as well. So it  21 really depends on what's happening.  22 Sometimes it -- in certain weeks,  23 it may be all encompassing. Almost. Not  24 entirely. But in other weeks, I'll be  25 focused on teaching and not do anything on</p>
<p style="text-align: right;">Page 67</p> <p>1 Ethicon and J&amp;J in this litigation?  2 MR. GOSS: Objection. Form.  3 THE WITNESS: It's my  4 understanding that I wouldn't have  5 reviewed all of the documents that have  6 been produced.  7 BY MS. SUTHERLAND:  8 Q. Okay.  9 A. But the ones that are relevant to  10 my opinions, I have reviewed.  11 Q. Do you know what percentage of your  12 income has come from expert consulting work  13 in the past five years?  14 A. I haven't averaged it over the last  15 five years. I have provided testimony on  16 that before in previous -- in previous  17 depositions and at trial, if I recall  18 correctly. Certainly in depositions.  19 When I first began product  20 liability litigation work, I was first  21 contacted the latter part of 2008 and really  22 began doing work in 2009 to any great  23 extent. And it's progressed from -- to the  24 best of my recollection as I sit here today,  25 I think what I've indicated is it may have</p>	<p style="text-align: right;">Page 69</p> <p>1 the litigation side.  2 Q. Do you think it was over 50 percent  3 last year?  4 A. Yes. I think that's fair.  5 Q. All right. So far this year, has  6 it been over 50 percent?  7 A. So far this year, yes.  8 Q. Okay. Do you know by how much over  9 50 percent?  10 A. No. I haven't done a calculation.  11 Q. And has your work been for  12 plaintiffs?  13 A. Yes.  14 Q. Consistently since you started  15 consulting in 2008?  16 A. No.  17 Q. All right. When did it become  18 consistent for plaintiffs?  19 A. Without checking back the dates, I  20 can't give you an exact date. The point is  21 I evaluate each case. If what you're asking  22 is do I only work for plaintiffs, I evaluate  23 each case, and I take -- I don't take every  24 case that I'm asked about.  25 So I evaluate to see if whether or</p>

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<p style="text-align: right;">Page 70</p> <p>1 not the opinions that I would be -- are the</p> <p>2 allegations that are being made based on</p> <p>3 what I can review are something that I</p> <p>4 believe that I could support, that my</p> <p>5 opinions based on what I review would be</p> <p>6 consistent with what counsel -- counsel's</p> <p>7 claims are.</p> <p>8 If they're not, I don't take the</p> <p>9 case. I don't --</p> <p>10 Q. In the -- I'm sorry. Were you</p> <p>11 done?</p> <p>12 A. I was just going to say I'm very --</p> <p>13 I will not testify or take any case if my</p> <p>14 opinions are not 100 percent consistent with</p> <p>15 the claims that are being made.</p> <p>16 If I review those, and I think that</p> <p>17 there's an issue, I don't take the case. I</p> <p>18 have to believe and stand behind my</p> <p>19 opinions.</p> <p>20 Q. Okay. In the past five years, have</p> <p>21 you taken a case for a defendant?</p> <p>22 A. Yes.</p> <p>23 Q. Okay. Who was that?</p> <p>24 A. It was for -- it was a pain -- it</p> <p>25 was a pain pump case, and it was --</p>	<p style="text-align: right;">Page 72</p> <p>1 case that you've been asked to opine about</p> <p>2 you, in fact, have opined about. Is that</p> <p>3 fair?</p> <p>4 A. After reviewing the information and</p> <p>5 seeing whether or not my opinions would be</p> <p>6 consistent with the claims that -- yes.</p> <p>7 Q. Okay. So the answer to my question</p> <p>8 is yes? Every pelvic mesh case you've been</p> <p>9 asked about, to opine about you have, in</p> <p>10 fact, opined about? Is that fair to give me</p> <p>11 a yes or no?</p> <p>12 A. To the best of my recollection as I</p> <p>13 sit here today, yes.</p> <p>14 Q. Okay.</p> <p>15 MS. SUTHERLAND: Let's, yeah,</p> <p>16 let's take a break.</p> <p>17 THE VIDEOGRAPHER: With the</p> <p>18 approval of counsel, going off the</p> <p>19 record. The time is approximately</p> <p>20 10:53 a.m.</p> <p>21 (Recess taken from</p> <p>22 10:53 a.m. to 11:01 a.m.)</p> <p>23 THE VIDEOGRAPHER: With the</p> <p>24 approval of counsel, back on the record.</p> <p>25 The time is approximately 11:01 a.m.</p>
<p style="text-align: right;">Page 71</p> <p>1 MR. GOSS: Can we take a</p> <p>2 bathroom break after this line of</p> <p>3 questioning?</p> <p>4 MS. SUTHERLAND: Yeah, yeah.</p> <p>5 Time flies.</p> <p>6 MR. GOSS: Too many Diet Cokes</p> <p>7 this morning.</p> <p>8 THE WITNESS: It was a</p> <p>9 contractual issue between one pain pump</p> <p>10 manufacturer and DJO.</p> <p>11 BY MS. SUTHERLAND:</p> <p>12 Q. Okay. Let me change my question.</p> <p>13 A. Okay.</p> <p>14 Q. Because I'm really just interested</p> <p>15 in product liability cases where a plaintiff</p> <p>16 is alleging they got hurt.</p> <p>17 Have you worked for a defendant in</p> <p>18 a product liability case in the past five</p> <p>19 years?</p> <p>20 A. No.</p> <p>21 Q. All right. Have you turned down a</p> <p>22 pelvic mesh case that you were asked to</p> <p>23 review?</p> <p>24 A. Not a pelvic mesh case, no.</p> <p>25 Q. All right. So every pelvic mesh</p>	<p style="text-align: right;">Page 73</p> <p>1 BY MS. SUTHERLAND:</p> <p>2 Q. Dr. Pence, sooner or later, we're</p> <p>3 going to get into your opinions in this</p> <p>4 case.</p> <p>5 Have you published any of your</p> <p>6 opinions that you're intending to offer in</p> <p>7 this case?</p> <p>8 A. No.</p> <p>9 Q. Have you ever spoken with any</p> <p>10 scientist about the opinions you intend to</p> <p>11 offer in this case?</p> <p>12 A. If you can clarify your question, I</p> <p>13 am a scientist; so I'm not sure what the</p> <p>14 question is.</p> <p>15 Q. Well, other than talking to</p> <p>16 yourself, have you talked with any other</p> <p>17 scientist about your opinions in this case?</p> <p>18 A. I've not talked with any other</p> <p>19 scientists. I've certainly read deposition</p> <p>20 testimony. I've read expert reports. I've</p> <p>21 read internal documents of Ethicon's own</p> <p>22 scientist.</p> <p>23 Q. Have you talked -- and I'm talking</p> <p>24 about talked. I understand what you've read</p> <p>25 and what's on your reliance list. Have you</p>

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<p style="text-align: right;">Page 74</p> <p>1 talked with any engineers about your 2 opinions in this case? 3 A. No, I have not. 4 Q. All right. And then other than 5 physicians that are paid by plaintiffs to be 6 expert witnesses, have you talked with any 7 physicians about your opinions that you're 8 intending to give in this case? 9 MR. GOSS: Objection. Form. 10 THE WITNESS: I haven't talked 11 with physicians about my opinions in 12 this case, including those, as you 13 noted, that are paid by plaintiffs for 14 this particular case. My opinions are 15 based on my review of the deposition -- 16 a number of depositions of both Ethicon 17 employees as well as the depositions 18 that are referenced in the reliance list 19 that we went through earlier, internal 20 documents, standards, and an integration 21 of all that information and analysis to 22 arrive at my opinions. 23 BY MS. SUTHERLAND: 24 Q. Right. My -- with all due respect, 25 I'm going to move to strike.</p>	<p style="text-align: right;">Page 76</p> <p>1 Q. Yeah. 2 A. But I didn't talk with them about 3 what should be in an IFU specifically, no. 4 Q. Okay. Let me ask it cleanly. 5 Have you talked with any physicians 6 about the opinions you have expressed in the 7 pelvic mesh litigation about IFUs? 8 A. As I understand your question, no. 9 Q. Okay. All right. Is it fair to 10 say that the opinions that you're going to 11 opine about in the Jennifer Ramirez case you 12 developed specifically for litigation? 13 A. Let me answer that this way: I was 14 asked to review the relevant documentation 15 and deposition testimony related to the 16 clearance and marketing of the TVT-O and 17 whether or not Ethicon met the standard of 18 care for not only preparation of the IFU but 19 for testing, its responsibilities for 20 post-market surveillance, and so forth. 21 As a part of being a regulatory 22 affairs professional, if you look at -- and 23 I'm a RAPS fellow, and the reason I bring 24 that up is because there is a level of 25 experience in order to achieve that level</p>
<p style="text-align: right;">Page 75</p> <p>1 But my question is: Just did you 2 talk with any physicians about your opinions 3 in this case? 4 A. No. 5 Q. And, obviously, you've offered 6 opinions on the adequacy of IFUs in pelvic 7 mesh cases, including this one; correct? 8 A. Yes, that is correct. 9 Q. All right. Now, as I understand 10 it, you have talked with plaintiff expert 11 physicians about pelvic mesh IFUs; is that 12 right? 13 A. Can you clarify your question? 14 Q. Yeah. I thought you had testified 15 in one case earlier that you had talked with 16 Dr. Rosenzweig about an IFU in a pelvic mesh 17 case. 18 Do you recall talking to him about 19 an IFU? 20 A. No. I think, to the best of my 21 recollection as I sit here today, what you 22 may be referring to is I was asked whether I 23 had spoken to any physicians about pelvic 24 mesh issues, and I would have mentioned 25 Dr. Rosenzweig and Dr. Margolis.</p>	<p style="text-align: right;">Page 77</p> <p>1 that one must meet, and a part of that is 2 being able to evaluate package inserts, 3 instructions for use, labeling, and know 4 what goes in labeling. That's part of my 5 credentials. 6 So I evaluated all of the 7 information that I -- as I mentioned, 8 deposition testimony, internal documents, 9 what the company knew or didn't know, 10 scientific and medical -- what the company 11 knew or didn't know based on their own 12 internal documents, or what they should have 13 known, scientific literature, the publicly 14 available MAUDE database, not only for its 15 own products but for other products where 16 complications and other safety issues have 17 been reported. 18 I evaluated all of that in the 19 context of FDA regulations as well as global 20 industry standards and my experience and 21 knowledge, based on the level 4 experience 22 that I have as a regulatory affairs 23 professional and product development 24 scientist in the medical device world, and 25 that's how I arrived at my opinions as</p>

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<p style="text-align: right;">Page 78</p> <p>1 regards what should have been in the 2 labeling and was missing from the labeling. 3 Q. Okay. And I'm not quite sure you 4 answered my question. Let me ask it this 5 way: The items that you just told me about 6 that you reviewed, you did that because 7 plaintiff's lawyers asked you to? 8 A. They asked me to review the 9 documentation and arrive at opinions. 10 Q. Right. 11 A. I told them the kinds of 12 information that I needed to review, and I 13 did some of my own independent research as 14 well. 15 Q. Okay. 16 A. And then, of course, I know the 17 standards that are applicable. 18 Q. Right. 19 A. And it was based on that that I 20 arrived at my opinions, but I was asked to 21 let counsel know what my opinions would be. 22 Q. And that whole process of this 23 review of pelvic mesh documents, et cetera, 24 began because plaintiff lawyers asked you 25 for your opinions; correct?</p>	<p style="text-align: right;">Page 80</p> <p>1 followed is the very same methodology 2 and process that I follow for a 3 pharmaceutical or medical device client 4 where I'm assisting them with labeling. 5 BY MS. SUTHERLAND: 6 Q. And I got that. My question is: 7 Didn't that process start, in fairness, 8 Dr. Pence, because plaintiff lawyers asked 9 you to? 10 MR. GOSS: Objection to form. 11 BY MS. SUTHERLAND: 12 Q. Isn't that true? 13 A. For the mesh products, that is 14 true. That was -- that was what I was asked 15 to review the information, let them know 16 what my opinions would be. 17 Q. FDA didn't ask you for your 18 opinions on pelvic mesh; correct? 19 A. No, they did not. 20 Q. And no mesh manufacturer asked you 21 for your opinions on pelvic mesh; right? 22 A. No, they have not. 23 Q. All right. So the folks that have 24 asked you for your opinions on pelvic mesh 25 have been plaintiff lawyers?</p>
<p style="text-align: right;">Page 79</p> <p>1 A. Yes. Just as it would be the -- 2 but it would be the same type of 3 methodology, the same type of process. 4 Q. I'm just asking how the process got 5 started -- 6 MR. GOSS: Please let her 7 finish her answer. 8 THE WITNESS: In a consulting 9 agreement with the client where I would 10 be helping them with developing their 11 labeling, I would undertake the same 12 type of evaluation and say, "No, this is 13 what we need to put in the labeling for 14 it to meet the standard of care for the 15 purpose of medical device labeling." 16 BY MS. SUTHERLAND: 17 Q. Okay. I think I'm going to move to 18 strike everything after "yes" because my 19 question really was you started this process 20 because plaintiff lawyers asked you to. 21 Isn't that fair? 22 MR. GOSS: Objection. Form. 23 THE WITNESS: It's a fair 24 question, but I think it needs to be 25 characterized that the process that I</p>	<p style="text-align: right;">Page 81</p> <p>1 A. Yes. That said, the 2015 update to 2 the labeling for TVT and TVT-O reflects much 3 of what I -- a number of the -- a lot of the 4 safety information that I stated in my 5 report was missing and should have been 6 included, and that now has been included. 7 MS. SUTHERLAND: Okay. I'm 8 going to move to strike everything after 9 "yes." 10 BY MS. SUTHERLAND: 11 Q. Are you intending to offer any 12 specific causation opinion in the Jennifer 13 Ramirez case? 14 A. No. 15 Q. All right. Are you intending to 16 offer any general causation opinion in the 17 Jennifer Ramirez case? 18 A. No. 19 Q. All right. Are you intending to 20 offer an opinion on manufacturing defect in 21 the Jennifer Ramirez case? 22 MR. GOSS: I'm sorry. Can you 23 repeat that? 24 THE WITNESS: Do you want me to 25 rephrase it?</p>

21 (Pages 78 to 81)



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<p style="text-align: right;">Page 82</p> <p>1 MR. GOSS: Yes.</p> <p>2 BY MS. SUTHERLAND:</p> <p>3 Q. Are you intending to offer a</p> <p>4 manufacturing defect opinion in the Jennifer</p> <p>5 Ramirez case?</p> <p>6 MR. GOSS: Objection. Form.</p> <p>7 THE WITNESS: If you are asking</p> <p>8 about -- and I recall a similar question</p> <p>9 a couple of weeks ago, I believe. If</p> <p>10 you're asking about the manufacturing</p> <p>11 process itself, maybe you can clarify,</p> <p>12 or are you asking about whether or not</p> <p>13 the product degrades, whether or not --</p> <p>14 BY MS. SUTHERLAND:</p> <p>15 Q. Yeah. It's the same thing I did</p> <p>16 two weeks ago. I'm not asking you about</p> <p>17 defects like degradation, roping, curling,</p> <p>18 et cetera, that other plaintiffs' experts</p> <p>19 have opined about.</p> <p>20 My question to you is for the lot</p> <p>21 or batch that Mrs. Ramirez, this TVT-O came</p> <p>22 out of, do you have any opinions that you</p> <p>23 intend to offer about the manufacturing</p> <p>24 processes for that batch?</p> <p>25 A. I intend to offer opinions, if</p>	<p style="text-align: right;">Page 84</p> <p>1 Q. So, again, just getting back</p> <p>2 specific to Mrs. Ramirez's batch --</p> <p>3 A. Yes.</p> <p>4 Q. -- is what you're going to offer</p> <p>5 that there were reports or devices returned</p> <p>6 from her same batch?</p> <p>7 A. There were at least two complaints</p> <p>8 about the batch from which her sling was</p> <p>9 made of fraying particle loss.</p> <p>10 Q. Okay. Did Dr. -- who is the</p> <p>11 implanter in this case?</p> <p>12 A. Cesar Reyes. Dr. Cesar Reyes.</p> <p>13 Q. Okay. Did Dr. Reyes in his</p> <p>14 deposition -- did he mention anything about</p> <p>15 noticing any fraying of the TVT-O before he</p> <p>16 implanted it?</p> <p>17 A. To the best of my recollection, he</p> <p>18 did.</p> <p>19 MR. GOSS: I'm sorry. Can you</p> <p>20 repeat that?</p> <p>21 MS. SUTHERLAND: Was that an</p> <p>22 objection?</p> <p>23 MS. VERBEEK: Yes.</p> <p>24 THE REPORTER: Can you repeat</p> <p>25 the objection?</p>
<p style="text-align: right;">Page 83</p> <p>1 asked, about the fact that that lot, that</p> <p>2 there had been complaints about that lot for</p> <p>3 mesh fraying.</p> <p>4 Q. And what opinions, if asked, are</p> <p>5 you going to give on that particular topic?</p> <p>6 A. That there was no testing that was</p> <p>7 ever done, that this was -- this batch, as</p> <p>8 well as other batches, were known to fray</p> <p>9 and have particle loss. There were</p> <p>10 complaints about particle loss. Some of</p> <p>11 Ethicon's own experts advised that they --</p> <p>12 that some physicians, when they saw those</p> <p>13 particles, would stop and use another sling</p> <p>14 because they were concerned about those</p> <p>15 particles, the migration of those products</p> <p>16 potentially causing pain.</p> <p>17 There were reports of those</p> <p>18 particles migrating into the vaginal wall</p> <p>19 and causing pain. There's documentation</p> <p>20 within Ethicon's own records that they did</p> <p>21 not recommend the use of a product and that</p> <p>22 this was -- in fact, there's deposition</p> <p>23 testimony that says this -- on behalf of</p> <p>24 Ethicon that says that the fraying was a</p> <p>25 product defect.</p>	<p style="text-align: right;">Page 85</p> <p>1 MS. VERBEEK: I objected to the</p> <p>2 form of the question.</p> <p>3 THE REPORTER: Thank you.</p> <p>4 MR. GOSS: I don't recall. Do</p> <p>5 we have an agreement that an objection</p> <p>6 for one is good for all?</p> <p>7 MS. SUTHERLAND: I would assume</p> <p>8 that'd be fine. Instead of tag teaming</p> <p>9 me, I'd be fine with that.</p> <p>10 MR. GOSS: There you go.</p> <p>11 BY MS. SUTHERLAND:</p> <p>12 Q. Do you want me to restate my</p> <p>13 question?</p> <p>14 A. Yes. Thank you.</p> <p>15 Q. Did you review Dr. Reyes'</p> <p>16 deposition?</p> <p>17 A. Yes, I did.</p> <p>18 Q. All right. Do you recall whether</p> <p>19 or not he testified about noticing any</p> <p>20 fraying of the TVT-O tape before he</p> <p>21 implanted it in Mrs. Ramirez?</p> <p>22 A. Yes.</p> <p>23 Q. What did he say?</p> <p>24 A. As I sit here today, what I recall</p> <p>25 is that he did not notice any particle loss.</p>

22 (Pages 82 to 85)

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<p style="text-align: right;">Page 86</p> <p>1 Q. Okay. I'm trying to think how to 2 phrase this one. Are you intending to offer 3 an opinion that because there were reports 4 received within her same batch, that 5 Mrs. Ramirez's TVT-O must have frayed as 6 well? 7 A. The potential was there. It's 8 in -- the potential was there for fraying, 9 roping, curling, and a degradation of the 10 mesh structure with any type of stretching. 11 Q. Okay. I'm talking specifically, 12 though, because I think your report 13 mentioned those two other reports from the 14 batch. 15 A. Yes. 16 Q. And my question is -- I understand 17 all that, that the opinions on degradation, 18 roping, curling, fraying that are generic to 19 TVT and the Prolene. My question is a 20 little more specific as to Mrs. Ramirez and 21 her specific batch, and my question is: Are 22 you intending to offer an opinion that 23 because of these two other reports from the 24 batch about fraying, that her, 25 Mrs. Ramirez's TVT-O must also have frayed</p>	<p style="text-align: right;">Page 88</p> <p>1 batch, that already there were other 2 complaints. 3 So if asked, I will testify that 4 that certainly was a -- you know, could have 5 happened. And not only that, but there's 6 much documentation that says this was in -- 7 the fraying and the particle loss was 8 inherent in the mesh, the mechanically cut 9 mesh, which was the whole impetus for the 10 development of the laser-cut mesh. So it's 11 inherent, by Ethicon's own words, in the 12 mechanically cut mesh, and then for her 13 particular batch, for there to have been 14 other complaints, there certainly was a 15 potential that on implantation, even if 16 Dr. Reyes didn't notice fraying at the time 17 he took it out to implant it, that it could 18 have frayed, and there could have been 19 particle loss, and as I mentioned, there 20 have been complaints of particle loss -- the 21 particles that are lost migrating into the 22 vaginal wall causing pain and causing pain 23 on -- dyspareunia. 24 Q. Let me try it this way: Are you 25 going to say that Mrs. Ramirez's tape was</p>
<p style="text-align: right;">Page 87</p> <p>1 based on those two reports? 2 A. A couple of points to be made. We 3 know that there were other slings in that 4 batch, as you've just described, that did 5 fray, although Dr. Reyes testified that he 6 didn't see that. He was not aware, based on 7 his testimony, that there was also a 8 laser-cut mesh. 9 Ethicon did not -- never did tell 10 doctors that had noticed this fraying about 11 the issues with fraying and roping and 12 curling. So whether or not Dr. Reyes 13 actually looked for that, only Dr. Reyes can 14 know. And as I sit here today to the best 15 of my recollection, I don't believe there 16 was a lot more discussion about whether or 17 not he saw any particle loss or fraying 18 other than that. 19 Whether or not he actually looked 20 in the packaging to see if there were any 21 particles, I don't know. I only know what 22 he testified to. My point being that also 23 on stretching, just the stretching that 24 occurs with implanting it, it could have 25 frayed. We know it was, in that particular</p>	<p style="text-align: right;">Page 89</p> <p>1 frayed because of these other two reports? 2 A. I can't say it was frayed because I 3 wasn't there. 4 Q. Okay. 5 A. But what I can say is the company 6 knew that this was a defect in the product. 7 The company knew that this happened often, 8 and for this particular batch, they had 9 specific complaints that showed it was an 10 issue with other slings from this batch. So 11 there was certainly a potential for fraying 12 when it was implanted. 13 Q. Okay. I'm going to move to strike 14 everything after "I can't say it was 15 frayed." 16 Let me ask you -- changing gears. 17 Let me ask you this: Obviously, you've got 18 a number of opinions in this case. 19 A. Yes. 20 Q. Have you conducted any studies to 21 support your opinions in this case? 22 MR. GOSS: Objection. Form. 23 THE WITNESS: Can you clarify 24 what you mean? 25 BY MS. SUTHERLAND:</p>

23 (Pages 86 to 89)

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<p style="text-align: right;">Page 90</p> <p>1 Q. Sure. Other than reviewing 2 documents and obviously applying your 3 expertise and your experience, have you 4 otherwise conducted any studies to 5 substantiate any of your opinions in this 6 case? 7 MR. GOSS: Objection. Form. 8 THE WITNESS: If you're asking 9 if I've conducted animal studies or 10 clinical studies, no, I've not. 11 BY MS. SUTHERLAND: 12 Q. Have you conducted any surveys of 13 physicians to substantiate any of your 14 opinions? 15 MR. GOSS: Objection. Form. 16 THE WITNESS: Specific to this 17 case, no. 18 BY MS. SUTHERLAND: 19 Q. All right. Have you conducted any 20 surveys of women at all -- I'll leave it 21 broad like that. Have you conducted any 22 surveys of women to substantiate your 23 opinions in this case? 24 A. Can you be more specific? 25 Q. I'll give you an example. For</p>	<p style="text-align: right;">Page 92</p> <p>1 information, and Ethicon, as the 2 manufacturer, has a responsibility to 3 provide that manufacturer -- or that 4 information to the physicians as well as to 5 the patient in the context of patient 6 brochures, if they're going to use patient 7 brochures, but the doctor can only relay to 8 the patient what the doctor knows. 9 And if Ethicon doesn't follow 10 through on its responsibility to provide the 11 information to the doctor so that he -- he 12 or she understands all the risks, then, as 13 stated in my report, then the consenting 14 process is negatively affected because a 15 true, full informed consent can't be done 16 because all the risks aren't known. 17 MS. SUTHERLAND: I'm going to 18 move to strike everything after "no, I 19 have not." 20 BY MS. SUTHERLAND: 21 Q. So again, my question really was 22 only to you whether or not you have 23 performed any kind of survey or study to 24 gather what women's perceptions of the TVT-O 25 patient brochure are.</p>
<p style="text-align: right;">Page 91</p> <p>1 instance -- and we'll get into it. One of 2 your opinions, as I understand it, is that 3 the patient brochure is misleading. 4 For example, have you conducted a 5 survey of women who have read the patient 6 brochure to get their perceptions on that 7 patient brochure? 8 A. The best answer I can give you on 9 that is no, I've not done the survey. 10 However, Meng Chen, Dr. Meng Chen, for 11 example, discussed patients with whom she 12 had spoken who had complaints who said that 13 based on what doctors were telling them and 14 based on the literature that was available, 15 that they were disappointed that neither 16 doctors nor Ethicon had been able to tell 17 them all the potential risks because they 18 did not feel that the potential -- that the 19 risk and the benefit were adequately 20 explained to them, and had they understood 21 the risk, they would have made a different 22 decision. 23 And that comes from complaints of 24 women made directly to Ethicon who did not 25 feel that they were getting the appropriate</p>	<p style="text-align: right;">Page 93</p> <p>1 A. No. As you've asked the question, 2 no. 3 Q. Okay. That wasn't so hard, was it? 4 Have you ever worked at FDA? 5 A. No. Worked, obviously, with FDA 6 and people at FDA but not as an employee at 7 FDA. 8 Q. Right. Have you ever talked with 9 the FDA about your opinions with respect to 10 pelvic mesh? 11 A. No. As you know, I'm bound by 12 confidentiality and have to sign 13 confidentiality agreements to receive the 14 documents. So that would be, to me, a 15 conflict of interest. 16 Q. Has FDA ever approached you to get 17 your opinions about pelvic mesh -- 18 A. No. 19 Q. -- and you've had to tell them "No, 20 I can't talk to you because of 21 confidentiality"? 22 A. No. 23 Q. Has the FDA ever asked for your 24 opinion about labeling of pelvic mesh 25 products?</p>

24 (Pages 90 to 93)

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<p style="text-align: right;">Page 94</p> <p>1 A. No.</p> <p>2 Q. Has the FDA ever asked for your</p> <p>3 opinion about instructions for use for</p> <p>4 pelvic mesh products?</p> <p>5 A. No.</p> <p>6 Q. Has FDA ever asked for your opinion</p> <p>7 about patient brochures of pelvic mesh</p> <p>8 products?</p> <p>9 A. No.</p> <p>10 Q. Has FDA ever asked for your opinion</p> <p>11 about anything regarding pelvic mesh?</p> <p>12 A. No.</p> <p>13 Q. Were you invited to be part of the</p> <p>14 2011 AdCom concerning pelvic mesh?</p> <p>15 A. No.</p> <p>16 Q. Have you ever spoken to anybody at</p> <p>17 the FDA concerning your opinions regarding</p> <p>18 pre-market testing of pelvic mesh products?</p> <p>19 A. No.</p> <p>20 Q. And have you ever spoken to any</p> <p>21 manufacturer outside the context of</p> <p>22 litigation about pre-market testing for</p> <p>23 pelvic mesh products?</p> <p>24 A. No, not for pelvic mesh products,</p> <p>25 no.</p>	<p style="text-align: right;">Page 96</p> <p>1 involvement in litigation on pelvic mesh,</p> <p>2 had you had any involvement whatsoever with</p> <p>3 any pelvic mesh device?</p> <p>4 A. In women's health issues, yes, but</p> <p>5 not a pelvic mesh device specifically, no.</p> <p>6 Q. Okay. And the woman's health</p> <p>7 device that you're talking about, what was</p> <p>8 that?</p> <p>9 A. It's women's health, a variety of</p> <p>10 health issues, both drugs and medical</p> <p>11 devices. And, again, I'm unable to disclose</p> <p>12 what products specifically because of my</p> <p>13 confidentiality agreements with the clients.</p> <p>14 Q. So would it be correct to say that</p> <p>15 prior to your involvement in litigation, you</p> <p>16 had not had any involvement whatsoever in</p> <p>17 pelvic mesh devices?</p> <p>18 A. That's fair to say, yes.</p> <p>19 Q. Okay. Are you intending to offer</p> <p>20 any criticisms of FDA as part of your</p> <p>21 opinions at trial?</p> <p>22 A. No.</p> <p>23 Q. Outside of litigation, have you</p> <p>24 ever drafted a label for a pelvic mesh</p> <p>25 device?</p>
<p style="text-align: right;">Page 95</p> <p>1 Q. Okay. Have you done that for mesh</p> <p>2 products?</p> <p>3 A. Yes. In the context of wound</p> <p>4 healing.</p> <p>5 Q. Okay. And what product are we</p> <p>6 talking about?</p> <p>7 A. It was -- I can't really say</p> <p>8 because I have confidentiality agreements</p> <p>9 with clients, but it was a product for use</p> <p>10 in wound healing.</p> <p>11 Q. Okay. And was this the Class 2</p> <p>12 product?</p> <p>13 A. This was actually -- I believe this</p> <p>14 was a Class 3.</p> <p>15 Q. All right. Have you talked with</p> <p>16 any manufacturer of a Class 2 mesh device</p> <p>17 concerning pre-market testing?</p> <p>18 A. Of a mesh device? Not as I sit</p> <p>19 here today, I don't recall that, no.</p> <p>20 Q. Okay. Have you ever been invited</p> <p>21 by the FDA to be on an advisory committee of</p> <p>22 any type?</p> <p>23 A. No.</p> <p>24 Q. I'm sure you've been asked this</p> <p>25 before so forgive me. Prior to your</p>	<p style="text-align: right;">Page 97</p> <p>1 A. No.</p> <p>2 Q. Outside of litigation, have you</p> <p>3 ever drafted a label for a mesh device?</p> <p>4 A. Not a mesh device, per se. I was</p> <p>5 involved in testing, but I'm trying to</p> <p>6 recall back. I don't recall working on the</p> <p>7 labeling for that specific device.</p> <p>8 Q. Okay. And you and I are on the</p> <p>9 same page. When I talk about labeling, you</p> <p>10 understand I'm talking about the</p> <p>11 instructions for use?</p> <p>12 A. Yes. Yes.</p> <p>13 Q. Okay. And I know that sometimes</p> <p>14 that gets a little semantical, label versus</p> <p>15 labeling versus IFU. Please let me know if</p> <p>16 you have confusion over the way I'm using a</p> <p>17 certain term in my questioning. I think</p> <p>18 we've been on the same page.</p> <p>19 A. I think so too. To the best of my</p> <p>20 recollection, as I sit here today, I don't</p> <p>21 recall working on the aspects of the</p> <p>22 labeling because of the testing that I was</p> <p>23 doing on that device, which would have gone</p> <p>24 into the labeling but not the final</p> <p>25 labeling, as I sit here today.</p>

25 (Pages 94 to 97)

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<p style="text-align: right;">Page 98</p> <p>1 Q. Okay. Actually, let me break it 2 down a little bit more focused. Outside of 3 litigation, have you ever worked on the 4 adverse events section of a mesh device? 5 A. Not specifically, no. 6 Q. Okay. And obviously outside of 7 litigation, have you ever worked on the 8 adverse events section of a pelvic mesh IFU? 9 A. No. 10 Q. All right. Outside of litigation, 11 have you ever worked on the warnings and 12 precautions section of an IFU for a mesh 13 device? 14 A. No. 15 Q. And then even more focused, outside 16 of litigation, have you ever worked on the 17 warnings and precautions section of an IFU 18 for a pelvic mesh device? 19 A. No. 20 Q. Okay. Outside of litigation, have 21 you ever worked on a patient brochure for a 22 mesh device? 23 A. Are you talking about polypropylene 24 mesh? 25 Q. I'll start with that. Do you want</p>	<p style="text-align: right;">Page 100</p> <p>1 A. Yes. 2 Q. All right. Were you on that team 3 to work on the patient brochure? 4 A. Not on the patient brochure 5 specifically, no. I worked on the clinical 6 information that would have gone into the 7 brochure. 8 Q. Okay. Would you have fed your 9 clinical information to a member on that 10 team -- 11 A. Yes. 12 Q. -- for inclusion in the patient 13 brochure? 14 A. Yes. 15 Q. Do you know what was included in 16 the patient brochure? 17 A. As I sit here today, I don't recall 18 specifically. 19 Q. All right. 20 A. It would have been the results of 21 the clinical -- well -- as I say, I put 22 together -- I actually -- you're talking 23 specifically about patient brochure. The 24 information, I don't recall as I sit here 25 today, what would have gone into the patient</p>
<p style="text-align: right;">Page 99</p> <p>1 me to ask it more cleanly? 2 A. Yes, please. 3 Q. Outside of the context of 4 litigation, have you ever worked on a 5 patient brochure for a polypropylene mesh 6 device? 7 A. No. 8 Q. All right. Outside the context of 9 litigation, have you ever worked on a 10 patient brochure for some other type of mesh 11 device? 12 A. On a dermal graft that was used for 13 wound healing, I worked on not specifically 14 the brochure but on background information, 15 some of which would have been representative 16 of what would have gone into a brochure. 17 Q. Okay. Was that, obviously, for 18 some kind of mesh manufacturer? I'm not 19 asking you who, but was that for a mesh 20 manufacturer? 21 A. It was for a Class 3 type product 22 for wound healing. 23 Q. Okay. And did that company have a 24 team that they put together to work on the 25 patient brochure for that product?</p>	<p style="text-align: right;">Page 101</p> <p>1 brochure. I know that the information that 2 I put together went to physicians. 3 Q. Okay. I had another question, and 4 I lost it. 5 Outside of litigation, have you 6 ever worked on a patient brochure for any 7 device? 8 A. Oh -- 9 MR. GOSS: Objection. Form. 10 THE WITNESS: I've worked on a 11 lot -- a lot of information that's been 12 provided to patients. The same types of 13 information that goes into a patient 14 brochure. I've done a lot of that 15 especially on the pre-marketing side for 16 patients where information sheets, all 17 the information that's known as well as 18 putting together the prototype labeling 19 for the professional labeling as well as 20 all the information that goes to 21 patients, putting together informed 22 consents for patients as well. 23 As I mentioned, the information 24 sheets to tell the patient more about 25 the product so that they can make an</p>



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<p style="text-align: right;">Page 102</p> <p>1 informed decision as to whether or not,  2 in the case of pre-marketing, in the  3 case of whether or not they actually  4 want to participate in a clinical trial  5 of a particular product.  6 And I've worked on -- let me  7 just think back a minute because it's  8 been over 40 years of experience. I  9 certainly have worked on information  10 that was to be presented in patient  11 forums about particular -- particular  12 products and --  13 BY MS. SUTHERLAND:  14 Q. I'm not sure I know what that  15 means. What do you mean "patient forums"?  16 A. On different seminars for patients  17 to learn more about a particular product, to  18 better inform them about particular  19 products.  20 Certainly put together the clinical  21 information that would have gone in to any  22 patient -- any patient brochures. As I've  23 mentioned before, in the context of working  24 within companies -- same as at Ethicon --  25 they have a team. And it's not any one</p>	<p style="text-align: right;">Page 104</p> <p>1 information that was going to go to the  2 patients that were going to have a device  3 implanted.  4 Q. And that's what you're talking  5 about, if I'm following you, is the consent  6 that you do for them to participate in,  7 like, a clinical trial?  8 A. It's not just the consent. It can  9 also be in we call them information sheets.  10 Q. Right. But it's for participation  11 in a clinical trial? Is that the context  12 that you're talking about?  13 A. Yes. On the pre-clinical side,  14 yes. I'm sorry. The pre-marketing side.  15 Q. Pre-marketing. Not pre-clinical.  16 A. Not pre-clinical. Pre-marketing  17 side.  18 Q. So to get to my question, have you  19 sat on a copy review team that worked on a  20 patient brochure for an implantable device  21 after it's been cleared or in the clearance  22 process?  23 A. I may have. I don't recall  24 specifically, as I sit here today.  25 Q. Okay. Have you sat on such a team</p>
<p style="text-align: right;">Page 103</p> <p>1 particular person that actually puts a  2 brochure together, puts the labeling  3 together. The different expertises  4 contribute their component, and then that's  5 pulled together typically finally by  6 regulatory for submission, but it's a team  7 that puts that together. So certainly, I've  8 sat on those teams.  9 Q. Okay. Well, that's part of my  10 question. For instance, at Ethicon, we know  11 it's a copy -- what's called a copy review  12 team --  13 A. Yes.  14 Q. -- that decides the final approval  15 of what goes into, for instance, a patient  16 brochure; correct?  17 A. Right.  18 Q. Is it your testimony that you have  19 sat on similar such copy review teams for  20 patient brochures for implantable devices?  21 A. For implantable devices?  22 Q. Yes, ma'am.  23 A. For implantable devices, I have  24 done more on the pre-clinical side where  25 I've put together all of the patient</p>	<p style="text-align: right;">Page 105</p> <p>1 for a patient brochure for an implantable  2 mesh device?  3 A. No.  4 Q. All right. And I would assume,  5 then, you have not sat on such a team for a  6 patient brochure for a pelvic mesh device?  7 A. That's correct. I have not.  8 Q. Okay. Now, you told me that you  9 describe yourself as a scientist; correct?  10 A. Yes. I am a scientist.  11 Q. Okay. And briefly -- I don't have  12 your CV in front of me. I know I've read it  13 multiple times. Tell me why you describe  14 yourself as a scientist.  15 A. I work -- well, first of all, let's  16 talk about educational background.  17 Q. Yeah. Let me start with that.  18 A. My educational background is in  19 science. I have an undergraduate degree in  20 microbiology with -- a major in microbiology  21 and minors in chemistry and zoology,  22 certainly all scientific fields. My  23 doctorate, my Ph.D. is in toxicology with a  24 minor in pharmacology, again, all medical  25 sciences.</p>

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<p style="text-align: right;">Page 106</p> <p>1 My work has involved science, 2 including product development science, both 3 pre-clinical testing, whether that's in 4 vitro or in vivo testing, as well as 5 clinical testing, all of which involve, of 6 course, science. 7 Work in manufacturing as well and 8 ensuring that products are manufactured 9 appropriately, according to standards. As a 10 product manager, overseeing the start of a 11 project from discovery all the way through 12 to product launch and as a regulatory 13 scientist. 14 Q. Do you describe yourself as a 15 pharmacotoxicologist, or is there a 16 particular science field that you use more 17 frequently than others to describe yourself? 18 Does that make sense? 19 A. Well, I think I understand your 20 question. Let me give it a try. 21 I describe myself as a product 22 development expert, product development 23 scientist, as well as a regulatory expert in 24 regulatory sciences. 25 Q. Okay. All right. And --</p>	<p style="text-align: right;">Page 108</p> <p>1 and it's that entire scope and that entire 2 spectrum of product development which I have 3 over 40 years of experience in and have 4 directed my career to being able to 5 understand and evaluate and guide products 6 through that entire development process. 7 Q. Okay. And keeping that answer in 8 mind, that entire development process, the 9 spectrum that you just described to me, has 10 any of your experience in that entire 11 spectrum ever concerned a pelvic mesh 12 product in your 40 years? 13 A. Not pelvic mesh. 14 Q. Okay. 15 A. Other than in the context of 16 litigation. 17 Q. Yeah. Outside of litigation, the 18 spectrum of experience that you just talked 19 about on product development, that's never 20 included a pelvic mesh product? 21 A. I have not, on the manufacturer's 22 side, been involved in the development of a 23 pelvic mesh product. However, all of that 24 same level -- all of that scope, I should 25 say, and that spectrum of experience and my</p>
<p style="text-align: right;">Page 107</p> <p>1 A. Because my -- the scope of my 2 expertise involves, as I was noting, and 3 that's how I developed my career, from basic 4 research all the way through to product 5 launch and post marketing. 6 So my career has encompassed that 7 entire scope of all -- when I teach, for 8 example, I put it into different buckets, if 9 you will, for my students to help them to 10 understand that you have the manufacturing, 11 the quality system component. You have the 12 pre-clinical testing, and you have the 13 clinical testing. 14 And then, of course, that all comes 15 together in the regulatory arena in order to 16 get a product cleared or approved, whichever 17 the case may be, providing that the data 18 show that it's safe and effective, and it's 19 a quality product and that there's a 20 favorable benefit/risk ratio, and then you 21 have the pre-marketing and the 22 post-marketing, which should be a continuum. 23 As long as the product is being 24 marketed, there's always testing and risk 25 analysis and feedback that has to happen,</p>	<p style="text-align: right;">Page 109</p> <p>1 experience and knowledge of all of those 2 areas, I applied in the context of 3 evaluating all of the information, the 4 deposition testimony, internal documents, 5 standards, guidance, regulation, scientific 6 medical literature, I applied all of that 7 and integrated that knowledge together to 8 arrive at my opinions in this case in the 9 very same fashion that I would for advising 10 clients or if employed by a company, that I 11 would participate at the company as a part 12 of the product team, I apply the same type 13 of methodology. 14 Q. Okay. And my question, I guess, 15 was just that you have not applied that 16 methodology outside the context of 17 litigation for a pelvic mesh product. 18 A. That's correct. 19 Q. Right. So a company has not asked 20 you to employ your expertise for a pelvic 21 mesh product; correct? 22 A. Not for a pelvic mesh product. 23 That's correct. 24 Q. The only folks that have asked you 25 to apply your expertise have been plaintiff</p>



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<p style="text-align: right;">Page 110</p> <p>1 lawyers; correct?</p> <p>2 A. For pelvic mesh products, yes.</p> <p>3 Q. Okay. Have you ever participated</p> <p>4 in any cadaver study of polypropylene mesh?</p> <p>5 A. No.</p> <p>6 Q. Have you ever participated in any</p> <p>7 animal study for polypropylene mesh?</p> <p>8 A. No.</p> <p>9 Q. Have you ever designed any clinical</p> <p>10 trials regarding polypropylene mesh?</p> <p>11 A. I've not designed one specifically</p> <p>12 for polypropylene mesh. I've considered</p> <p>13 designs, but I've not designed one.</p> <p>14 Q. All right. And when you considered</p> <p>15 designs, was that outside the context of</p> <p>16 litigation?</p> <p>17 A. No. It was in the context of</p> <p>18 litigation.</p> <p>19 Q. All right. Have you ever been</p> <p>20 involved in any clinical research concerning</p> <p>21 polypropylene mesh outside litigation?</p> <p>22 A. No.</p> <p>23 Q. Have you ever designed a pelvic</p> <p>24 mesh?</p> <p>25 A. No.</p>	<p style="text-align: right;">Page 112</p> <p>1 A. Sorry. GLP. Good laboratory</p> <p>2 practices.</p> <p>3 Q. I'm not going to talk politics with</p> <p>4 you.</p> <p>5 A. Sorry. So we could be here all</p> <p>6 day; right? We're teasing.</p> <p>7 So I teach GLP, and I've done</p> <p>8 inspections of facilities to be sure that</p> <p>9 they meet the requirements for a GLP testing</p> <p>10 facility and then help to design the</p> <p>11 studies, oversee them, review the study</p> <p>12 reports, go back and forth with the contract</p> <p>13 laboratory with questions to ensure that we</p> <p>14 get the final report that is accurate and</p> <p>15 represents what actually was done in the</p> <p>16 study.</p> <p>17 Q. Okay. I'm going to respectfully</p> <p>18 move to strike everything after "no" because</p> <p>19 I think my question was does Symbion own any</p> <p>20 lab equipment?</p> <p>21 A. No.</p> <p>22 Q. All right. Have you ever done any</p> <p>23 biomechanical testing of polypropylene mesh?</p> <p>24 A. No.</p> <p>25 Q. Ever done any testing of a mesh</p>
<p style="text-align: right;">Page 111</p> <p>1 Q. Have you ever done any lab work</p> <p>2 regarding polypropylene mesh?</p> <p>3 A. No.</p> <p>4 Q. As I understand it, your company</p> <p>5 Symbion, does that have a lab?</p> <p>6 A. No.</p> <p>7 Q. All right. Do you own any lab</p> <p>8 equipment?</p> <p>9 A. No. We work with -- when we're</p> <p>10 working with clients, and we're working in</p> <p>11 pre-clinical research where a laboratory</p> <p>12 environment is needed, we identify contract</p> <p>13 laboratories to do that work, and we help to</p> <p>14 design the testing.</p> <p>15 We oversee and sometimes inspect</p> <p>16 the facilities to make sure that they're</p> <p>17 adequate, that can do what -- they can meet</p> <p>18 the requirements for the testing,</p> <p>19 particularly if it's good laboratory</p> <p>20 practice standards. I teach good laboratory</p> <p>21 practice that they meet GLP requirements.</p> <p>22 If it's a study, pre-clinical study that</p> <p>23 requires GLP standards be met, must be done</p> <p>24 under GLP.</p> <p>25 Q. Are you saying GOP or GLP?</p>	<p style="text-align: right;">Page 113</p> <p>1 explant?</p> <p>2 A. No.</p> <p>3 Q. Have you ever looked at a mesh</p> <p>4 explant under a microscope?</p> <p>5 A. I've looked at photos but not under</p> <p>6 a microscope myself.</p> <p>7 Q. Okay. And the photos that you're</p> <p>8 talking about, would that have been in</p> <p>9 medical literature that you looked at?</p> <p>10 A. Medical literature or in the</p> <p>11 context of a trial.</p> <p>12 Q. Like a photo that one of the</p> <p>13 experts took --</p> <p>14 A. That's correct.</p> <p>15 Q. -- of a mesh explant. Okay.</p> <p>16 Have you -- first of all, you know</p> <p>17 what a DDSA is; correct?</p> <p>18 A. Yes.</p> <p>19 Q. And what is it? A device design</p> <p>20 safety analysis.</p> <p>21 A. Yes.</p> <p>22 Q. All right. Have you ever done a</p> <p>23 DDSA for a mesh product?</p> <p>24 A. There are different terms that are</p> <p>25 used, DFMEA, that kind of thing, I've been</p>

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<p style="text-align: right;">Page 114</p> <p>1 involved in those, yes, for mesh -- not  2 mesh. For other devices.  3 Q. Let me get a -- and I'm going to  4 ask you about DFMEA right after this one.  5 Let me get a clean question and answer.  6 Have you ever been involved in  7 performing a device design safety analysis  8 for a mesh product?  9 A. No.  10 Q. Have you ever reviewed a device  11 design safety analysis for a mesh product  12 outside the context of litigation?  13 A. No.  14 Q. Okay. Now I'll do the DFMEA.  15 A. Okay.  16 Q. Am I correct, Doctor, that an FMEA  17 is a failure mode evaluation analysis?  18 A. Failure mode effects analysis.  19 Q. And have you ever performed an  20 DFMEA for a mesh product?  21 MR. GOSS: Objection to form.  22 THE WITNESS: Not a mesh  23 product, no.  24 ///  25 BY MS. SUTHERLAND:</p>	<p style="text-align: right;">Page 116</p> <p>1 college.  2 Q. I know you do. I'm doing it for  3 the jury and for myself.  4 Have you ever been involved in a  5 clinical trial to evaluate the safety or  6 efficacy of a medical device where part of  7 that device was polypropylene mesh?  8 A. Not polypropylene, no.  9 Q. All right. Have you been involved  10 in a clinical trial to evaluate the safety  11 or efficacy of a medical device where part  12 of that device was something other -- a mesh  13 other than polypropylene mesh?  14 A. Yes.  15 Q. And is that the Allograft that you  16 talked about?  17 A. It was in -- it actually was a  18 different product, but it was a part of the  19 product that was being evaluated prior to  20 the final product.  21 Q. Okay. Like a prototype?  22 A. Yes.  23 Q. Okay. What size clinical trial was  24 that?  25 A. I don't recall, as I sit here</p>
<p style="text-align: right;">Page 115</p> <p>1 Q. All right. Have you ever reviewed  2 an DFMEA for a mesh product outside the  3 context of litigation?  4 A. Not outside of the context of  5 litigation.  6 Q. All right. Do you consider  7 yourself an expert on how mesh performs in  8 vivo?  9 A. Can you clarify what you mean?  10 Q. Have you ever yourself studied how  11 mesh reacts in vivo clinically?  12 A. Have I done the clinical testing  13 myself?  14 Q. Right.  15 A. No. In fact, I've opined that the  16 clinical testing has been inadequate that  17 manufacturers have done.  18 Q. Okay. I'm going to move to strike  19 everything after "no."  20 Have you ever been involved in a  21 clinical trial -- let me strike that.  22 You understand when I talk about a  23 clinical trial, that I'm talking about  24 actual humans being involved; right?  25 A. Yes. I teach clinical trials at</p>	<p style="text-align: right;">Page 117</p> <p>1 today, the actual numbers of patients.  2 Q. Do you know if it was a hundred?  3 A. If I recall correctly, it probably  4 was more than that, as I sit here today  5 without checking back.  6 Q. Okay. Well, when was it?  7 A. That particular trial was, to the  8 best of my recollection as I sit here today,  9 mid to latter 1990s.  10 Q. Okay. Have you ever done any kind  11 of mechanical testing on the TVT-O?  12 A. No.  13 Q. Have you ever done any kind of  14 testing or measurements on the Prolene mesh?  15 A. No.  16 Q. I had asked you before about  17 whether or not you have looked at the new  18 drug application for Prolene sutures.  19 A. Yes.  20 Q. Have you now reviewed the entire  21 NDA for Prolene sutures?  22 A. No. I think I've testified before  23 I was not able to. I don't have a copy of  24 that to review.  25 Q. Okay. And I think I had asked you</p>

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<p style="text-align: right;">Page 118</p> <p>1 before if you had asked for that from  2 counsel, and I thought you told me you had.  3 A. To the best of my recollection, I  4 had, and it wasn't -- it wasn't available.  5 Q. Provided?  6 A. Yeah.  7 Q. Okay. All right. Obviously,  8 you've never diagnosed stress urinary  9 incontinence.  10 A. No.  11 Q. Have you ever treated stress  12 urinary incontinence?  13 A. No.  14 Q. Have you ever made a recommendation  15 to a woman on the options available to her  16 to treat stress urinary incontinence?  17 A. I have talked with women who --  18 about the options that are available.  19 Q. And would this have been, like,  20 friends -- I don't want names or anything.  21 A. Yes. Yes.  22 Q. About how many women have you  23 talked to about the options available to  24 treat stress urinary incontinence?  25 A. Oh, it would be probably in the</p>	<p style="text-align: right;">Page 120</p> <p>1 never make a recommendation. That's  2 something that -- I'm not a clinician. They  3 need to be evaluated appropriately.  4 Q. By a doctor?  5 A. By a doctor.  6 Q. Medical doctor?  7 A. By a medical doctor. And based on  8 their own particular situation, what their  9 issues are, discuss with the doctor what the  10 options are. It's just that if someone asks  11 me, you know, "Do you know what's available?  12 What do you think about this?" As a  13 scientist, an educated scientist in this  14 area, I can give them my thoughts.  15 But I would never make -- I would  16 never tell them what to do. That's a  17 decision -- and that goes to the consenting  18 process that we were talking about earlier.  19 They need to know all the information about  20 the products to make an appropriate decision  21 for themselves.  22 Q. For the women where you have just  23 talked about the options for treatment of  24 stress urinary incontinence, have you talked  25 with them about the risks that you're aware</p>
<p style="text-align: right;">Page 119</p> <p>1 order of maybe five.  2 Q. All right. And do you recall what  3 options you talked with them about?  4 A. Just told them about pessaries,  5 told them about bulking agents, told them  6 about Burch colposuspension, certainly the  7 topic of pelvic mesh -- well, the mesh came  8 up. Clearly, I don't recommend that based  9 on everything that I've reviewed over the  10 last few years. So when they ask, I give  11 them my opinion.  12 Q. Have you recommended a Burch to a  13 woman?  14 A. No. I would never make a  15 recommendation. And, you know, and I don't  16 discuss with people that -- I don't  17 volunteer that I'm working in litigation.  18 I'm very discreet about what I say, but if  19 anybody asks me because they know I'm in --  20 they know I'm a scientist, and clearly, you  21 know, there are some people, obviously, who  22 know that I've been at trial, that  23 information is available.  24 When I'm asked, you know, I talk to  25 them about the various options, but I would</p>	<p style="text-align: right;">Page 121</p> <p>1 of with the Burch procedure?  2 A. We really haven't gotten to that  3 level of detail with them. It's very  4 cursory conversations.  5 Q. Okay. Have you ever been in the  6 operating room when a TVT-O was actually  7 implanted?  8 A. I've seen videos, but I've not been  9 in the operating room, yeah.  10 Q. Was it an Ethicon training video on  11 TVT-O that you've -- are referencing there?  12 A. Yes. As well -- yes. And I've  13 looked at other videos of slings as well.  14 And there are even some that you can --  15 where certain doctors have posted various --  16 Q. Their own surgeries?  17 A. Their own, and I've looked at those  18 as well.  19 Q. Have you watched a Burch surgery?  20 A. To the best of my recollection as I  21 sit here today, I have looked at a video of  22 that.  23 Q. All right. Do you recall when you  24 did that?  25 A. I don't. Sometime within the last</p>

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<p style="text-align: right;">Page 122</p> <p>1 couple of years --</p> <p>2 Q. Was that --</p> <p>3 A. -- but I don't recall specifically.</p> <p>4 Q. I'm sorry. Was that just a video</p> <p>5 that you found off of, like, YouTube --</p> <p>6 A. Yes.</p> <p>7 Q. -- or was that a professional</p> <p>8 education video?</p> <p>9 A. To the best of my recollection, it</p> <p>10 was something that I found on YouTube.</p> <p>11 Q. All right.</p> <p>12 A. And, of course, there are lots of</p> <p>13 pictures, and even in the training</p> <p>14 materials, you know, for Ethicon and other</p> <p>15 places, there are pictures of procedures,</p> <p>16 and it discusses those procedures. So I've</p> <p>17 certainly reviewed those. Textbooks.</p> <p>18 Q. All right. Let me ask you this:</p> <p>19 See what I get.</p> <p>20 A. You're going fishing?</p> <p>21 Q. I'm going fishing.</p> <p>22 Would you agree that there are</p> <p>23 patients who have had a TVT-O implanted who</p> <p>24 have had no complications?</p> <p>25 A. I can't answer that as asked yes or</p>	<p style="text-align: right;">Page 124</p> <p>1 complication that has affected them a year</p> <p>2 or even two years out, these are permanent</p> <p>3 implants, and it's well known and, in fact,</p> <p>4 Ethicon's own employees have testified that,</p> <p>5 for example, erosions are a lifelong risk as</p> <p>6 long as the implant is there.</p> <p>7 And as I started to mention, in the</p> <p>8 literature, it's showing that a number of</p> <p>9 complications actually increase in a</p> <p>10 percentage of patients who are</p> <p>11 experiencing -- experience them over time,</p> <p>12 which all the more supports why one needs to</p> <p>13 study a permanent implant long term to see</p> <p>14 what the complications may be.</p> <p>15 And also because there is a chronic</p> <p>16 foreign body reaction that is set up and</p> <p>17 depending on what the mesh -- the</p> <p>18 biomaterial may be, et cetera, and the</p> <p>19 characteristics of the particular implant</p> <p>20 may be, that long-term inflammation may also</p> <p>21 ultimately cause complications.</p> <p>22 So my point being that just because</p> <p>23 a woman hasn't experienced a complaint that</p> <p>24 has bothered her in a year doesn't mean that</p> <p>25 five years from now she isn't going to have</p>
<p style="text-align: right;">Page 123</p> <p>1 no because I don't know every patient that</p> <p>2 has been implanted and whether or not what</p> <p>3 complications they may or may not have had</p> <p>4 as well.</p> <p>5 It's also in the literature and</p> <p>6 documented that patients may have --</p> <p>7 particularly women who are not sexually</p> <p>8 active may have erosions that they're not</p> <p>9 aware of, and without an actual pelvic</p> <p>10 examination, physical examination, that that</p> <p>11 can't be -- that may not be detected. So</p> <p>12 for several reasons, I'm unable to say yes</p> <p>13 or no the way your question was asked.</p> <p>14 Q. Okay. Let me ask a couple of</p> <p>15 follow-ups. It's correct, then, that a</p> <p>16 woman can have an erosion and be completely</p> <p>17 asymptomatic; correct?</p> <p>18 A. In the situation that I described</p> <p>19 where she isn't sexually active, and it's --</p> <p>20 it's small, it may not be bothering her, is</p> <p>21 my understanding as I sit here today. It</p> <p>22 doesn't mean that it may not bother her long</p> <p>23 term, and that also is an important point</p> <p>24 because what we're seeing in the literature</p> <p>25 is that just because a patient hasn't had a</p>	<p style="text-align: right;">Page 125</p> <p>1 one. The data supports that the data -- the</p> <p>2 medium to long-term data on these products</p> <p>3 is still, at this point in time, very</p> <p>4 limited.</p> <p>5 Q. Okay. I'm going to move to strike</p> <p>6 everything after you finished your first</p> <p>7 sentence, and I've forgotten what that was.</p> <p>8 Let me ask it this way: Do you</p> <p>9 intend to offer an opinion that every woman</p> <p>10 implanted with a TVT-O will have a</p> <p>11 complication from that mesh?</p> <p>12 MR. GOSS: Objection to form.</p> <p>13 THE WITNESS: I can't say they</p> <p>14 will. What I can say is that there is a</p> <p>15 potential for complication. So they may</p> <p>16 not. They may not.</p> <p>17 BY MS. SUTHERLAND:</p> <p>18 Q. All right. You mentioned before</p> <p>19 the need for long-term clinical data for</p> <p>20 permanent implants.</p> <p>21 A. Yes.</p> <p>22 Q. And I know I've asked you this</p> <p>23 before, and I don't think you gave me a</p> <p>24 specific time frame a couple of weeks ago</p> <p>25 when I asked this. Do you have a specific</p>

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<p style="text-align: right;">Page 126</p> <p>1 time frame in mind today that, in your  2 opinion, constitutes what you call long-term  3 for a permanent implant?  4 MR. GOSS: Objection to form.  5 THE WITNESS: In the  6 literature --  7 BY MS. SUTHERLAND:  8 Q. Let me ask a better question  9 because that was so convoluted I lost it.  10 A. Okay.  11 Q. As I understand your opinion, it's  12 that for a permanent implant such as the  13 TVT-O, a manufacturer needs long-term data;  14 is that right?  15 A. Yes. Yes.  16 Q. All right. Now, do you have a  17 specific time frame that you're ascribing to  18 "long-term data"?  19 A. A medium term is three to five  20 years. Long-term would be ten years.  21 Q. Okay. And is it your opinion  22 that --  23 A. Or longer than five years but at  24 least ten years would be helpful.  25 Q. All right.</p>	<p style="text-align: right;">Page 128</p> <p>1 your opinions.  2 Would you agree that there are  3 women where the TVT-O has been placed where  4 it's been effective to treat their stress  5 urinary incontinence?  6 MR. GOSS: Objection. Form.  7 THE WITNESS: Based on my  8 understanding, that's correct.  9 BY MS. SUTHERLAND:  10 Q. All right. Would you agree that  11 there are a lot of doctors in the United  12 States who believe that the TVT-O is safe  13 and effective?  14 MR. GOSS: Objection. Form.  15 THE WITNESS: Based on my  16 knowledge of the situation today, there  17 are doctors who, yes, believe it is safe  18 and effective. There are others who are  19 changing their opinions.  20 BY MS. SUTHERLAND:  21 Q. Okay. Other than the Burch  22 procedure, are there other surgical  23 procedures that you're aware of for the  24 treatment of stress urinary incontinence  25 without the use of mesh?</p>
<p style="text-align: right;">Page 127</p> <p>1 A. And that is also described in some  2 pieces of literature.  3 Q. So is it five years, or is it ten  4 years?  5 A. Three to five for mid, for medium.  6 Ten years would be long-term for a permanent  7 implant.  8 Q. Okay. And so for a permanent  9 implant like the TVT-O, are you going to  10 offer an opinion at trial that Ethicon  11 should have had ten years worth of data  12 before they marketed the TVT-O?  13 A. No, because that becomes -- that --  14 there's a practicality aspect, obviously, as  15 well. What they should have done, however,  16 is to continue a registry and have follow-on  17 data so that they're collecting that data.  18 But before you even get to that point, there  19 is a lot of testing that should have been  20 done pre-marketing that they didn't do that  21 they should have understood before these  22 products were implanted in women.  23 Q. And I'm going to get to that  24 because that's one of your opinions in your  25 report. I do promise I am going to get to</p>	<p style="text-align: right;">Page 129</p> <p>1 A. Yes.  2 Q. Okay. And what are they?  3 A. Well, the Burch can be done open or  4 laparoscopically. There's the MMK, the  5 Marshall-Marchetti-Krantz. Paravaginal  6 repairs, different types of suspensions and,  7 of course, then there are -- you said  8 surgical, though; right?  9 Q. Yes, ma'am.  10 A. So excluding bulking agents.  11 Q. Yeah. When you talk about  12 suspensions, are you talking about the use  13 of an autologous sling as well?  14 A. Yes, definitely an autologous sling  15 or an Allograft as well.  16 Q. Yeah. By "Allograft," do you mean  17 either cadaver or some kind of animal?  18 A. Well, that would be a xenograft,  19 but yeah. So cadaver tissue, yes. There  20 are different options as well as the  21 autologous grafts.  22 Q. All right. Now, are you familiar  23 --  24 A. Autologous sling, I should say.  25 Q. I'm sorry.</p>



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<p style="text-align: right;">Page 130</p> <p>1 A. I'm sorry.</p> <p>2 Q. I don't mean to cut you off.</p> <p>3 Are you familiar with the risks</p> <p>4 associated with those different procedures</p> <p>5 that you just mentioned?</p> <p>6 A. I think so, yes.</p> <p>7 Q. All right. So with respect to the</p> <p>8 Burch open procedure, can you tell me what</p> <p>9 are the risks associated with that</p> <p>10 procedure?</p> <p>11 A. Well, certainly you have --</p> <p>12 MR. GOSS: Objection. Form.</p> <p>13 THE WITNESS: -- the same risk</p> <p>14 of anesthesia that you do with any</p> <p>15 surgical procedure. There's the risk of</p> <p>16 pain, pelvic pain, the risk of</p> <p>17 dyspareunia, the risk of bleeding, the</p> <p>18 risk of organ perforation, the risk of</p> <p>19 voiding dysfunction. Those are some of</p> <p>20 the representative ones.</p> <p>21 BY MS. SUTHERLAND:</p> <p>22 Q. And I had asked that specific to</p> <p>23 Burch, but would those same risks be</p> <p>24 applicable, for instance, to the Burch</p> <p>25 performed laparoscopically?</p>	<p style="text-align: right;">Page 132</p> <p>1 about a foreign body, there are -- there are</p> <p>2 differences where there's -- where there's a</p> <p>3 graft being placed. Even with a biological</p> <p>4 graft, you can get erosion that you</p> <p>5 obviously don't have in the Burch</p> <p>6 colposuspension.</p> <p>7 Q. And did you say can you have a</p> <p>8 foreign body reaction when you use a foreign</p> <p>9 body other than a mesh?</p> <p>10 A. Well, I'm speaking more there about</p> <p>11 the polypropylene meshes.</p> <p>12 Q. Okay. I'm excluding the meshes for</p> <p>13 right now.</p> <p>14 A. Okay.</p> <p>15 Q. I'm just wanting to get your</p> <p>16 understanding of the risks that are</p> <p>17 attendant to, for instance, that you said an</p> <p>18 autologous sling for the treatment of SUI.</p> <p>19 MR. GOSS: Objection. Form.</p> <p>20 THE WITNESS: That's one's own</p> <p>21 tissue.</p> <p>22 BY MS. SUTHERLAND:</p> <p>23 Q. Right. Can your own tissue erode?</p> <p>24 MR. GOSS: Objection. Form.</p> <p>25 BY MS. SUTHERLAND:</p>
<p style="text-align: right;">Page 131</p> <p>1 A. Yes.</p> <p>2 Q. And would those same risks be</p> <p>3 applicable to the MMK?</p> <p>4 A. That's my understanding. That's</p> <p>5 correct.</p> <p>6 MR. GOSS: Objection. Form.</p> <p>7 BY MS. SUTHERLAND:</p> <p>8 Q. Okay. Do you know how many doctors</p> <p>9 perform the MMK today?</p> <p>10 A. I don't know how many doctors.</p> <p>11 It's my understanding that it's not</p> <p>12 performed very often today.</p> <p>13 Q. Okay. Do you know if it's even</p> <p>14 taught in medical school anymore?</p> <p>15 MR. GOSS: Objection. Form.</p> <p>16 THE WITNESS: I can't say for</p> <p>17 every medical school whether or not it's</p> <p>18 taught or not. I haven't done that</p> <p>19 evaluation.</p> <p>20 BY MS. SUTHERLAND:</p> <p>21 Q. All right. Would those same risks</p> <p>22 that you mentioned be applicable to an</p> <p>23 autologous sling?</p> <p>24 A. Yes. I think what we're talking</p> <p>25 about, if you're going -- if you're talking</p>	<p style="text-align: right;">Page 133</p> <p>1 Q. Or do you know?</p> <p>2 MR. GOSS: Objection. Form.</p> <p>3 THE WITNESS: I haven't</p> <p>4 actually studied that. I suspect that</p> <p>5 it could, but I haven't actually studied</p> <p>6 that.</p> <p>7 BY MS. SUTHERLAND:</p> <p>8 Q. Can the sutures that are utilized</p> <p>9 in these other surgical procedures for the</p> <p>10 treatment of SUI erode?</p> <p>11 A. Yes.</p> <p>12 Q. And can you have a reaction to the</p> <p>13 use of cadaver tissue?</p> <p>14 MR. GOSS: Objection. Form.</p> <p>15 THE WITNESS: You could, yes.</p> <p>16 BY MS. SUTHERLAND:</p> <p>17 Q. I mean, that's a risk associated</p> <p>18 with surgical treatment of SUI where you use</p> <p>19 cadaver tissue, isn't it?</p> <p>20 MR. GOSS: Objection. Form.</p> <p>21 THE WITNESS: It's a potential</p> <p>22 risk.</p> <p>23 BY MS. SUTHERLAND:</p> <p>24 Q. All right. Now, have you -- strike</p> <p>25 that.</p>

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<p style="text-align: right;">Page 134</p> <p>1 What, if anything, have you done to 2 determine whether doctors knew of these 3 risks for surgical treatment of SUI other 4 than with mesh? 5 MR. GOSS: Objection. Form. 6 THE WITNESS: If I understand 7 your question correctly, review of the 8 literature, review of textbooks about 9 the procedure, review of deposition 10 testimony. I think that's probably a 11 good summation. 12 BY MS. SUTHERLAND: 13 Q. Okay. Have you done any kind of 14 survey of physicians to understand their 15 state of knowledge with respect to the risks 16 you've listed for surgical options for the 17 treatment of SUI other than with mesh? 18 MR. GOSS: Objection. Form. 19 THE WITNESS: I've not done a 20 survey, no. 21 BY MS. SUTHERLAND: 22 Q. All right. So if I'm understanding 23 you correctly -- let me ask you this: Would 24 it be fair to say that you are aware of 25 these risks because of your review of the</p>	<p style="text-align: right;">Page 136</p> <p>1 treatment of SUI that does not use mesh? 2 MR. GOSS: Objection. Form. 3 THE WITNESS: Yes. And more 4 specifically, the labeling should 5 include information about frequency, 6 severity, chronicity of those particular 7 risks. 8 BY MS. SUTHERLAND: 9 Q. Okay. And I'm going to get to 10 that. So I'm going to move to strike 11 everything after "yes" for right now. 12 Well, I'll go ask you this while 13 we're on that. Is there any IFU that you've 14 seen for a pelvic mesh device that includes 15 rates of frequency for their adverse events? 16 MR. GOSS: Objection. Form. 17 THE WITNESS: Not for a pelvic 18 mesh device of the ones that I have 19 reviewed that we discussed earlier. 20 BY MS. SUTHERLAND: 21 Q. Of the ones you've reviewed, yeah. 22 What about any mesh device? Does 23 any mesh device that you've reviewed, does 24 the IFU include frequency rates for their 25 adverse events?</p>
<p style="text-align: right;">Page 135</p> <p>1 medical literature? 2 A. Yes. 3 MR. GOSS: Objection. Form. 4 BY MS. SUTHERLAND: 5 Q. All right. Is it your opinion that 6 doctors are aware of these risks if they 7 have reviewed the medical literature? 8 MR. GOSS: Objection. Form. 9 THE WITNESS: Yes. And they 10 were also taught. 11 BY MS. SUTHERLAND: 12 Q. In medical school? 13 A. In medical school or more 14 specifically in their fellowships or -- 15 internships and fellowships, residencies. 16 Q. Now. Is it your opinion that a 17 manufacturer of a mesh device for the 18 surgical treatment of stress urinary 19 incontinence has a duty to warn of risks 20 associated with the use of the device? 21 A. Yes. 22 Q. All right. Now, in your definition 23 of risks associated with the use of the 24 device, are you including risks that also 25 are associated with general surgical</p>	<p style="text-align: right;">Page 137</p> <p>1 MR. GOSS: Objection. Form. 2 THE WITNESS: If I recall 3 correctly as I sit here today, for 4 example, some of the Gor-Tex IFUs 5 include clinical data that shows the 6 frequency of particular adverse events 7 in the clinical testing. 8 BY MS. SUTHERLAND: 9 Q. Okay. And would that be a separate 10 section under clinical performance in that 11 IFU? 12 A. To the best of my recollection, 13 yes, it's included there. But it's present 14 in the IFU. 15 Q. And, now, I'm assuming your 16 opinion -- well, let me just ask you: Is 17 your opinion that in the IFU Ethicon, under 18 the adverse events section where it listed 19 adverse events, it should have listed 20 frequency rates for those adverse events? 21 A. They should have -- let me go back 22 to the purpose of labeling, which is to 23 provide the information to the physician 24 that he can also discuss with the patient to 25 make an informed decision. Like Dr. Reyes</p>

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<p style="text-align: right;">Page 138</p> <p>1 said, you know, he wanted -- if I recall  2 correctly, he wanted to make an informed  3 decision, and information to make an  4 informed decision includes, because just as  5 you've mentioned there, some of the same  6 types of side effects, risks that occur with  7 the mesh products can occur with other types  8 of surgery as well.  9 So in order to make an informed  10 decision about what is the appropriate  11 alternative for this woman, like in the case  12 of Ms. Ramirez, her case, a 28 years old,  13 whether or not you implant a mesh product or  14 use something else, understanding the  15 frequency, the severity, the permanency,  16 chronicity of these in contrast to other  17 procedures where there may be -- there's a  18 possibility or the potential for adverse  19 effects but that don't have the same level  20 of severity, or they don't occur as often,  21 and they don't last as -- they don't last  22 chronically for the lifetime of the patient.  23 And then, of course, you have the  24 specific mesh-related complications as well.  25 But yes, and if you look at the G91-1, the</p>	<p style="text-align: right;">Page 140</p> <p>1 you guys want to break for lunch?  2 MR. GOSS: How about now?  3 Whenever you're at a stopping point.  4 MS. SUTHERLAND: I mean, I  5 think I'm at a -- good enough now as  6 later.  7 MR. GOSS: All right.  8 THE VIDEOGRAPHER: All right.  9 With the approval of counsel, going off  10 the record. The time is approximately  11 12:15 p.m.  12 (Lunch recess taken from  13 12:15 p.m. to 1:01 p.m.)  14 THE VIDEOGRAPHER: With the  15 approval of counsel, back on the record.  16 The time is approximately 1:01 p.m.  17 BY MS. SUTHERLAND:  18 Q. Dr. Pence, welcome back from lunch.  19 A. Thank you.  20 Q. I wanted to follow up on what we  21 had kind of been talking about before the  22 break, which was your opinion that there  23 needs to be frequency rates set out beside  24 adverse events in the IFU.  25 A. Yes.</p>
<p style="text-align: right;">Page 139</p> <p>1 Blue Book Memo, it does address that you  2 should actually list the adverse events in  3 order of greatest clinical significance and  4 where appropriate, you have from clinical  5 information frequency that that should be  6 included as well.  7 MS. SUTHERLAND: All right.  8 Would you read my question back.  9 (Record read by the  10 reporter as follows:  11 Is it your opinion that in the IFU Ethicon under  12 the adverse events section where it listed adverse  13 events it should have listed frequency rates for  14 those adverse events?")  15 BY MS. SUTHERLAND:  16 Q. And I'm -- if I missed your answer,  17 I apologize, but I do want an answer to that  18 question if I could get it.  19 A. Yes, that's my opinion.  20 Q. Okay. Now --  21 MR. GOSS: You missed that in  22 the last answer?  23 MS. SUTHERLAND: I missed that  24 one. You saw how long she had to scroll  25 for it. Come on.  26 Guys, we're at 12:15. When do</p>	<p style="text-align: right;">Page 141</p> <p>1 Q. All right. And if I understood you  2 correctly, you were relying on the Blue Book  3 Memo for that opinion?  4 A. Yes.  5 Q. All right. And I -- where did it  6 just go? Oh.  7 A. As well as experience.  8 Q. Okay. And in case I didn't ask  9 this before, is there any pelvic mesh IFU  10 that you have reviewed that lists frequency  11 rates outside adverse events?  12 A. No.  13 Q. Okay. Now, in looking at the Blue  14 Book Memo, which I marked as Exhibit  15 Number 2 --  16 A. I might also add that in addition  17 to the Blue Book Memo, there's also the GHTF  18 labeling document, which talks about all  19 residual risk, and we may have talked about  20 in the prior deposition that risk is a  21 combination of the probability of occurrence  22 and severity.  23 Q. Well, the probability of occurrence  24 and severity is the definition of how you  25 define a risk in the GHTF document; correct?</p>

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<p style="text-align: right;">Page 142</p> <p>1 A. That's the definition of risk, yes.  2 It's a combination of those.  3 Q. Now, the GHTF labeling guidance  4 does not set out anything about listing  5 frequency next to adverse events, does it?  6 MR. GOSS: Objection. Form.  7 THE WITNESS: It talks about --  8 let me just refresh my recollection --  9 MS. SUTHERLAND: Okay.  10 THE WITNESS: -- but it says  11 that all residual risk, and risk by  12 definition includes a combination of  13 probability of occurrence and severity.  14 And some of these documents, you know,  15 various pieces of literature also  16 discuss, in addition to the guidances,  17 discuss severity as being important.  18 BY MS. SUTHERLAND:  19 Q. And when you get to the document,  20 tell me what you're looking at, please.  21 A. Okay. This is the label  22 instructions for use in medical devices.  23 Q. Okay.  24 A. GHTF guidance.  25 Q. Right.</p>	<p style="text-align: right;">Page 144</p> <p>1 MS. SUTHERLAND: No, I haven't.  2 Certainly you're welcome to if you want  3 to as Exhibit 9.  4 If you don't mind sticking that  5 on there. That means you've got to give  6 it up.  7 (Exhibit Number 9 was  8 marked for identification.)  9 MR. GOSS: That's how you lost  10 your last one; right?  11 THE WITNESS: Yes. Exactly.  12 MS. SUTHERLAND: This was his  13 idea.  14 BY MS. SUTHERLAND:  15 Q. So if I'm right, are you relying on  16 the GHTF labeling guidance and the Blue Book  17 Memo for your opinion that frequency rates  18 need to be listed out beside adverse events  19 in a pelvic mesh IFU?  20 A. Yes. As well as I mentioned my own  21 experience and also the fact that, if I'm  22 recalling correctly as I sit here today,  23 that Ethicon's corporate designee testified,  24 regulatory corporate designee Susan Lin,  25 testified, again as I recall, if I recall</p>
<p style="text-align: right;">Page 143</p> <p>1 A. Which states that "Residual risks,  2 which are required to be communicated to the  3 user and/or other person, should be included  4 as limitations, contraindications,  5 precautions, or warnings in the labeling."  6 MR. GOSS: Let the record  7 reflect that the witness is reading from  8 page --  9 THE WITNESS: Unfortunately, it  10 doesn't have a page number.  11 MR. GOSS: Or section number.  12 THE WITNESS: Section  13 number 5.0, General Principles, on the  14 beginning or two pages after that at the  15 top of the page, there's a bullet point.  16 MS. SUTHERLAND: All right.  17 MR. GOSS: Have you marked this  18 as an exhibit?  19 MS. SUTHERLAND: Yeah. We can.  20 I mean, we did last -- two weeks ago I  21 marked all of the --  22 MR. GOSS: I was just going to  23 reference it as what exhibit number it  24 was. I didn't know if you'd marked it  25 yet.</p>	<p style="text-align: right;">Page 145</p> <p>1 correctly as I sit here today, that Ethicon  2 had adopted the G91-1 as its standard.  3 Q. Okay. Well, let's look at the Blue  4 Book Memo, which you're calling the G91-1  5 standard; correct?  6 A. Right.  7 Q. And if you'll turn to the adverse  8 event section in there, and I pulled down  9 the page, down at the bottom, do you see  10 where --  11 A. Yes.  12 Q. And I don't have a copy. So I'm  13 kind of going by my notes.  14 MR. GOSS: What do you need?  15 Blue Book?  16 MS. SUTHERLAND: Blue Book  17 Memo.  18 MR. GOSS: It may have my  19 writing on it, but if it does --  20 MS. SUTHERLAND: I won't look  21 at your super secret notes unless  22 they're very helpful.  23 MR. GOSS: Yeah.  24 BY MS. SUTHERLAND:  25 Q. And if I am with you at the right</p>

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<p style="text-align: right;">Page 146</p> <p>1 language, you're looking under adverse 2 reactions under Section 8 of the Blue Book 3 Memo? 4 A. Yes. 5 Q. And you're looking under the third 6 paragraph that begins "Adverse reactions 7 should be listed"? 8 A. Yes. 9 Q. All right. Is this what you're -- 10 the standard that you're relying on when you 11 opine that "Adverse reactions should be 12 listed in descending order according to 13 their clinical significance as determined by 14 their severity and frequency"? 15 A. Correct. 16 Q. All right. And let me ask you -- 17 I'm going to had you the TVT-O IFU that I'm 18 going to mark as Exhibit Number 10. 19 (Exhibit Number 10 was 20 marked for identification.) 21 BY MS. SUTHERLAND: 22 Q. And I have marked on mine -- 23 MR. GOSS: Don't worry about 24 it. What is that? 25 MS. SUTHERLAND: It's just the</p>	<p style="text-align: right;">Page 148</p> <p>1 Q. And now I understand and I'm going 2 to get to your opinion about listing 3 additional adverse reactions. Right now my 4 question to you is: The adverse reactions 5 that are listed there, is it your opinion 6 that they are not listed in descending order 7 according to their clinical significance? 8 Actually, strike that. Let me ask a 9 different question to begin with, and then 10 I'll come back to that. 11 MR. GOSS: As long as I haven't 12 marked on that Blue Book, you can mark 13 that as an exhibit if you want. 14 MS. SUTHERLAND: Well, I marked 15 hers as the Blue Book. 16 MR. GOSS: Okay. 17 MS. SUTHERLAND: Yeah. 18 BY MS. SUTHERLAND: 19 Q. You're not a medical doctor; 20 correct? 21 A. That's correct. 22 Q. And you don't implant mesh 23 obviously; correct? 24 A. Correct. 25 Q. And you don't treat complications</p>
<p style="text-align: right;">Page 147</p> <p>1 IFU. 2 BY MS. SUTHERLAND: 3 Q. And I want you to turn with me, 4 Doctor, to the adverse reaction section. 5 A. Is this the IFU that was in use 6 with Ms. Ramirez? 7 Q. I pulled it from Dr. Reyes' 8 deposition; so I can represent to you that I 9 assume so. 10 A. Okay. 11 MR. GOSS: Let the record 12 reflect that on the first page, it says 13 2005. You might ask her if 2005 would 14 also be the same as the 2010. 15 BY MS. SUTHERLAND: 16 Q. Would that be the same as the 2010? 17 A. The adverse reactions during this 18 period. Even if it were a different -- 19 Q. Yeah. The adverse reactions would 20 be the same? 21 A. The adverse reactions would stay 22 the same for this time period. 23 Q. Yeah. Yeah. So turn with me to 24 the adverse reaction section of the IFU. 25 A. Yes.</p>	<p style="text-align: right;">Page 149</p> <p>1 associated with the use of mesh; correct? 2 A. That's correct. 3 Q. Or with surgical procedures to 4 treat stress urinary incontinence; correct? 5 A. That's correct. 6 Q. So do you consider yourself 7 qualified to opine as to the clinical 8 significance of different adverse reactions 9 associated with mesh? 10 MR. GOSS: Objection. Form -- 11 (Simultaneous discussion 12 interrupted by the reporter.) 13 THE WITNESS: As to the adverse 14 events that should go into labeling, 15 yes. 16 BY MS. SUTHERLAND: 17 Q. Okay. But are you qualified, in 18 your opinion, to offer an opinion as to the 19 clinical significance between different 20 adverse events? 21 MR. GOSS: Objection. Form. 22 THE WITNESS: The way you've 23 asked that question, I can't really give 24 you a yes or no. So let me see if I can 25 explain it. The clinical significance</p>

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<p style="text-align: right;">Page 150</p> <p>1 is determined, like within the project  2 team, with -- based on a clinical  3 evaluation which includes commercial  4 experience. It includes what's in the  5 clinical literature and clinical  6 investigations.  7 And as a part of my career in  8 product development, yes, I have often  9 evaluated adverse reactions as regards  10 to clinical significance and working  11 with investigators to make that  12 determination.  13 But I've done evaluations of  14 adverse reactions for clinical  15 significance myself, but we incorporate  16 physicians as a part of that product  17 team.  18 But the labeling here, if you  19 read what this says, it says, "Provide  20 frequency data from adequate clinical  21 studies." So it's from the clinical  22 evaluation, which I've participated in  23 many times, that you -- based on the  24 different types of clinical data, you  25 determine what's clinically significant.</p>	<p style="text-align: right;">Page 152</p> <p>1 known through commercial experience, the  2 scientific literature, clinical  3 investigations that are done.  4 And when you look at the  5 potential -- whether the -- where  6 there's a reasonable association of the  7 device with the occurrence of the event,  8 there doesn't have to be causation  9 proved. Based on that analysis, you  10 determine what should go in the  11 labeling, which I did for my opinions,  12 and yes, I am qualified to do that.  13 BY MS. SUTHERLAND:  14 Q. Okay. And my question is not  15 asking you if you're qualified to opine as  16 to what ought to be in the labeling. My  17 question is: Are you qualified as a  18 non-physician to tell me of the adverse  19 events that are in the labeling, which are  20 more clinically significant than others as  21 far as the order that they ought to be  22 listed?  23 MR. GOSS: Objection. Form,  24 asked and answered.  25 THE WITNESS: With severity and</p>
<p style="text-align: right;">Page 151</p> <p>1 Does that help?  2 BY MS. SUTHERLAND:  3 Q. Not really. Right now my question  4 is just on are you -- do you consider  5 yourself qualified as a non-physician to  6 offer an opinion as to the clinical  7 significance of the different adverse  8 reactions that are set out in the TVT-O IFU?  9 MR. GOSS: Objection. Form.  10 THE WITNESS: I think there are  11 two parts -- two answers -- two parts of  12 the answer to that question, I should  13 say.  14 If you're talking about in  15 terms of determining in an event that  16 occurs to a patient whether or not that  17 particular event is clinically  18 significant, in that case, I would work  19 with the doctor to make that  20 determination, which I've done many  21 times.  22 If you're talking about  23 clinical significance as to what goes in  24 the labeling, that is based on an  25 evaluation of, as I mentioned, what's</p>	<p style="text-align: right;">Page 153</p> <p>1 frequency, based on severity and  2 frequency, yes. In terms of whether or  3 not a clinician thinks in terms of  4 managing a patient one is more important  5 than another, then for that, a physician  6 would be the appropriate person. But in  7 terms of severity and frequency on  8 clinical significance, yes.  9 BY MS. SUTHERLAND:  10 Q. Is that just because of your review  11 of the medical literature?  12 A. No. It's review of what's in the  13 clinical literature -- I mean, the clinical  14 studies that have been published as well as  15 the literature and commercial experience,  16 what's known within the company, the  17 input -- there's lots of documentation  18 within Ethicon that -- where they've had  19 meetings of their preceptors and meetings of  20 their experts who they consult with who have  21 discussed the importance of a number of  22 unmet medical needs, for example, with mesh  23 and what is important from a clinical  24 standpoint.  25 Q. So if -- I'm not going to -- we may</p>

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<p style="text-align: right;">Page 154</p> <p>1 agree to disagree on your qualifications on  2 that, but assuming you are allowed to opine  3 as to the clinical significance of adverse  4 reactions, in looking at the TVT-O IFU, are  5 those adverse reactions listed appropriately  6 in descending order according to their  7 clinical significance as determined by their  8 severity and frequency?  9 MR. GOSS: Objection. Form.  10 THE WITNESS: There are no  11 severities and frequencies listed here  12 to denote that aspect of whether or not  13 they're listed in order of clinical  14 significance.  15 As well, some of them are  16 wrong, like transitory foreign body  17 reaction may occur. It may be chronic.  18 BY MS. SUTHERLAND:  19 Q. Do you have an opinion that you  20 intend to give that the adverse reactions  21 that are listed in the TVT-O IFU are  22 incorrectly listed as far as being put in  23 descending order according to their clinical  24 significance as determined by their severity  25 and frequency?</p>	<p style="text-align: right;">Page 156</p> <p>1 Q. Do you with that?  2 A. Yes.  3 Q. All right. The device user for a  4 pelvic mesh product is someone who's been  5 trained in the surgical treatment of stress  6 urinary incontinence; correct?  7 A. In the treatment of stress -- well,  8 we hope so, yes.  9 Q. Well, the information -- I mean,  10 the IFU, in fact, sets out that that's who  11 ought to be using the TVT-O; correct?  12 A. Yes.  13 Q. Someone who's been trained in the  14 surgical treatment of stress urinary  15 incontinence?  16 A. That is correct.  17 Q. And, in fact, someone who's been  18 trained in the use of the TVT-O; right? I  19 mean, that's what the IFU says, isn't it?  20 A. Let me look at the specific  21 language.  22 Q. Okay. It's actually on page 2  23 under "Important."  24 A. Yes, it does. This one does say  25 and specifically in implanting the Gynecare</p>
<p style="text-align: right;">Page 155</p> <p>1 MR. GOSS: Objection. Form.  2 THE WITNESS: As regards to the  3 question as you've asked it and as I  4 understand it, that's not my intention  5 to opine about that specifically.  6 BY MS. SUTHERLAND:  7 Q. Okay. Then let me take you to the  8 next sentence on the Blue Book Memo, and it  9 talks about "Provide frequency data from  10 adequately reported clinical studies when  11 the data is not well known to the device  12 user and/or when needed in deciding between  13 the use of the device and an alternative  14 procedure or approach."  15 Are you with me?  16 A. Yes.  17 Q. All right. I want to break those  18 into two questions, if I could, first.  19 As I understand what the Blue Book  20 Memo says, it says you provide frequency  21 data from adequately reported clinical  22 studies when the data is not well known to  23 the device user. All right? Are you with  24 me?  25 A. Yes. Yes.</p>	<p style="text-align: right;">Page 157</p> <p>1 TVT obturator device. That said --  2 Q. Well, now, you've answered my  3 question. So my next question is --  4 MR. GOSS: Let me see that.  5 BY MS. SUTHERLAND:  6 Q. Have you conducted a study of  7 surgeons who are trained in the surgical  8 use -- strike that.  9 Have you conducted a survey of  10 physicians who have been trained in the  11 surgical treatment of SUI and trained in the  12 use of TVT-O to determine whether or not  13 they were unaware of frequency data of any  14 adverse event?  15 MR. GOSS: Objection. Form.  16 MS. VERBEEK: Same objection.  17 THE WITNESS: I have not  18 conducted a survey, but I've certainly  19 reviewed deposition testimony where  20 there's information about adverse  21 reactions or potential adverse reactions  22 that doctors were not aware of.  23 ///  24 BY MS. SUTHERLAND:  25 Q. And how many depositions of</p>

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<p style="text-align: right;">Page 158</p> <p>1 surgeons trained in the surgical treatment 2 of SUI and TVT-O have you reviewed? 3 MR. GOSS: Objection. Form. 4 THE WITNESS: I don't have a 5 specific number that I recall as I sit 6 here today. 7 BY MS. SUTHERLAND: 8 Q. I mean, it's less than five. 9 Wouldn't that be fair? 10 A. It may be more than five. 11 Q. Of surgeons trained for TVT-O? 12 A. It may be more than five. 13 Q. Is it going to be more than ten? 14 MR. GOSS: Objection. Form. 15 THE WITNESS: Probably not. 16 BY MS. SUTHERLAND: 17 Q. And do you know how many surgeons 18 in the United States are trained in the 19 surgical treatment of stress urinary 20 incontinence? 21 MR. GOSS: Objection. Form. 22 MS. VERBEEK: Same objection. 23 THE WITNESS: I can tell you 24 approximately how many urogynecologists, 25 gynecologists, and urologists there are</p>	<p style="text-align: right;">Page 160</p> <p>1 effective use of the product, and if you 2 don't include information from clinical 3 studies for very adverse events that are 4 of high clinical significance in the 5 labeling, then you are assuming that 6 those 30 some-odd thousand physicians 7 who could potentially use the product 8 have all read all the literature that 9 expresses that important information. 10 And you're also assuming, then, 11 that all of those 30 some-odd thousand 12 doctors have gone to specific training 13 for TVT-O, and the TVT-O training is a 14 cadaver lab sometimes with a proctor 15 later as well working with a proctor. 16 But there's no credentialing 17 required for someone to be able to 18 implant a TVT-O; so they may or may not 19 have had specific training. 20 But you have to go back to the 21 point of the labeling. The manufacturer 22 owns that document. It is the key point 23 of communication, the IFU, with the 24 physician who's going to be using the 25 product. And, therefore, all necessary</p>
<p style="text-align: right;">Page 159</p> <p>1 in total. How many have actually, you 2 know, practiced in the treatment of SUI, 3 I don't have a specific number, but 4 there are in the high 30 thousands, if I 5 recall correctly, of ones who are listed 6 as active. 7 BY MS. SUTHERLAND: 8 Q. All right. 9 A. And practice. 10 Q. And if I'm understanding the basis 11 of your opinion that frequency data from 12 adequately reported clinical studies is not 13 well known to the user of the TVT-O, that 14 basis is your review of approximately ten or 15 less depositions? 16 MR. GOSS: Objection. Form. 17 THE WITNESS: I'm saying that 18 there -- I'll take the counter argument, 19 so to speak, to your question that 20 you're asking how many surgeons there 21 are that may practice in SUI. 22 First of all, the labeling is 23 the cornerstone of risk management, and 24 the purpose is to provide all 25 information necessary for safe and</p>	<p style="text-align: right;">Page 161</p> <p>1 important information must be in there. 2 For example, the groin and 3 thigh pain. The percentage is as high 4 as in the 20 percents, 20 percent or 5 more for groin and thigh pain in some 6 clinical studies. Doctors who are 7 implanting the TVT-O, if they've not 8 read the literature, they're not up to 9 date on the literature, would not know 10 that. 11 That's the reason that type of 12 information should be in the IFU. 13 MS. SUTHERLAND: All right. 14 I'm going to move to strike that entire 15 answer. 16 Would you read my question 17 back? 18 (Record read by the 19 reporter as follows: 20 BY MS. SUTHERLAND: 21 Q. Is that true? 22 A. Not as you've asked the question. 23 No, that's not true. 24 Q. Are you assuming that the 30,000 or 25 so surgeons, and it might be less, that are</p>



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<p style="text-align: right;">Page 162</p> <p>1 actually trained in the surgical treatment 2 of stress urinary incontinence do not know 3 frequency data of adverse events? 4 MR. GOSS: Objection. Form. 5 BY MS. SUTHERLAND: 6 Q. Are you making that assumption? 7 A. I'm not making an assumption. I'm 8 stating that it's really irrelevant as to 9 what goes in the labeling. There are 10 standards. There are regulations, and 11 there's a global standard for what's 12 supposed to go into the labeling. 13 And going to the second point here, 14 information when needed and deciding between 15 the use of the device and an alternative 16 procedure or approach, having that 17 information is critical to understanding 18 what the risks are for one product versus 19 another, and without that information, the 20 labeling does not serve its purpose which is 21 to provide, again, all the information 22 necessary for safe and effective use of the 23 product. 24 Q. And I appreciate that, but my 25 question is the Blue Book that you're</p>	<p style="text-align: right;">Page 164</p> <p>1 I've not seen any evidence that Ethicon has 2 ever done this survey in order to exclude 3 incorporating that information. 4 Q. I'm asking what you have done. 5 A. I have not done a survey, but short 6 of Ethicon, who has a responsibility for the 7 labeling, never having done such a survey, 8 then the information needs to be included. 9 One would be making a large 10 assumption to think that every physician of 11 those 30-plus thousand has read all of the 12 literature that's available. 13 Q. Aren't you making an assumption 14 that they haven't? 15 A. But that's the point. The 16 labeling -- 17 Q. Give me a yes or no, please. Are 18 you making an assumption that they haven't 19 read the literature? 20 MR. GOSS: No, no, no. We're 21 not going to start interrupting her by 22 telling her what she's going to do and 23 what she's not going to do. You can ask 24 your question. She can answer the 25 question. You can object nonresponsive.</p>
<p style="text-align: right;">Page 163</p> <p>1 relying on for your opinion that frequency 2 data needs to be in the IFU says, "You 3 provide frequency data when that data is not 4 well known to the device user." And I'm 5 trying to get what have you done to 6 determine that the frequency data is not 7 well known to the device users of TVT-O? 8 MR. GOSS: Objection. Form. 9 BY MS. SUTHERLAND: 10 Q. And you haven't done a survey of 11 physicians; correct? 12 A. No. Nor did the company. 13 Q. You've read approximately ten 14 depositions of surgeons for the TVT-O; 15 correct? 16 A. Yes. 17 Q. All right. What have you done 18 otherwise, if anything, to be able to opine 19 that frequency data from adequately reported 20 clinical studies is not well known to the 21 TVT-O device user? 22 A. I have looked up and evaluated the 23 total numbers of physicians that have the 24 potential credentials to implant this 25 device, and one has to -- Ethicon didn't --</p>	<p style="text-align: right;">Page 165</p> <p>1 But let's not interrupt each other. 2 BY MS. SUTHERLAND: 3 Q. Aren't you making an assumption 4 that -- 5 MR. GOSS: Are you finished? 6 Were you finished with your answer? 7 THE WITNESS: I don't remember 8 my point. 9 BY MS. SUTHERLAND: 10 Q. I'll start over. Aren't you making 11 an assumption that surgeons trained in the 12 surgical treatment of stress urinary 13 incontinence have not read the medical 14 literature and, therefore, are not versed in 15 frequency data? 16 A. What I am saying I am not making 17 any assumption. What I'm saying is that I'm 18 doing -- I'm recommending -- I'm opining 19 that one ensures that the information is 20 available, which is what a reasonably 21 prudent medical device manufacturer would do 22 to ensure that the information is available 23 because one cannot know if every surgeon who 24 might use this product has read the 25 literature.</p>

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<p style="text-align: right;">Page 166</p> <p>1 Then the manufacturer who owns the</p> <p>2 label must ensure that the necessary</p> <p>3 information for safe and effective use of</p> <p>4 the product is provided.</p> <p>5 Q. All right. Let me ask it one more</p> <p>6 time. What, if anything, have you done to</p> <p>7 determine that surgeons trained in the</p> <p>8 surgical treatment of stress urinary</p> <p>9 incontinence do not know the frequency data</p> <p>10 from adequately reported clinical studies?</p> <p>11 MR. GOSS: Objection. Form.</p> <p>12 THE WITNESS: I've already</p> <p>13 indicated that I've read depositions of</p> <p>14 different physicians. I've read</p> <p>15 obviously lots of internal</p> <p>16 documentation, scientific literature,</p> <p>17 and I've evaluated, I've assessed the</p> <p>18 total number of potential physicians in</p> <p>19 this country who could be using this</p> <p>20 product.</p> <p>21 BY MS. SUTHERLAND:</p> <p>22 Q. Okay.</p> <p>23 A. And based on that -- and based on</p> <p>24 what should be included in the label for</p> <p>25 safe and effective use of the product, I</p>	<p style="text-align: right;">Page 168</p> <p>1 A. Well, adverse events can result</p> <p>2 from that.</p> <p>3 Q. Well, for instance, like erosion</p> <p>4 could result from one or the other of the</p> <p>5 things that you said. But I'm asking</p> <p>6 specifically about an adverse event that you</p> <p>7 think ought to be listed in the IFU with</p> <p>8 frequency data.</p> <p>9 Is there a particular Ethicon</p> <p>10 document that you're thinking of that</p> <p>11 supports your opinion that users of the</p> <p>12 TVT-O device didn't know about the frequency</p> <p>13 data from adequately reported clinical</p> <p>14 studies?</p> <p>15 MR. GOSS: Objection. Form.</p> <p>16 THE WITNESS: As you've asked</p> <p>17 the question, I can't think of a</p> <p>18 specific document that says they don't</p> <p>19 know the frequency of this, but I can</p> <p>20 think of many documents that say</p> <p>21 doctors -- that this information has not</p> <p>22 been made available to doctors.</p> <p>23 BY MS. SUTHERLAND:</p> <p>24 Q. Okay. I'm going to move to strike</p> <p>25 after your first sentence.</p>
<p style="text-align: right;">Page 167</p> <p>1 arrived at my opinions.</p> <p>2 Q. Is there an internal Ethicon</p> <p>3 document that says that frequency data for a</p> <p>4 particular adverse event is not well known</p> <p>5 to device users?</p> <p>6 MR. GOSS: Objection. Form.</p> <p>7 THE WITNESS: Ask that question</p> <p>8 again, please.</p> <p>9 BY MS. SUTHERLAND:</p> <p>10 Q. Sure. I thought you said as part</p> <p>11 of your bases for your opinion that you're</p> <p>12 relying on internal Ethicon documents.</p> <p>13 A. Right.</p> <p>14 Q. So is there such a document from</p> <p>15 Ethicon that says for any adverse event that</p> <p>16 the frequency data of that adverse event is</p> <p>17 not well known to device users?</p> <p>18 A. Well, for example, there's</p> <p>19 information on roping, and -- there's</p> <p>20 documentation in Ethicon's files, I should</p> <p>21 say, on roping and fraying and that this</p> <p>22 information and the -- that that information</p> <p>23 was not made known to doctors.</p> <p>24 Q. Let me limit it to actually to</p> <p>25 adverse events.</p>	<p style="text-align: right;">Page 169</p> <p>1 Now, you can set aside that IFU and</p> <p>2 pull out your report from this case, the</p> <p>3 2015, and turn to pages 78 and 79, if you</p> <p>4 would. I'll tell you where I'm going with</p> <p>5 this.</p> <p>6 I want to get from you exactly what</p> <p>7 you intend to tell a jury ought to be listed</p> <p>8 under the adverse reactions section of the</p> <p>9 TVT-O IFU in 2010.</p> <p>10 Does that make sense?</p> <p>11 A. Yes, it does.</p> <p>12 Q. All right. So I've read through</p> <p>13 your report and saw the list on page 78 and</p> <p>14 79, and I want to ask you is this listing on</p> <p>15 these bullet points from 78 to 79 what you</p> <p>16 intend to tell a jury in this case should</p> <p>17 have been included in the adverse reactions</p> <p>18 section of the TVT-O IFU?</p> <p>19 A. Yes, that's correct.</p> <p>20 Q. All right. Now, are there any</p> <p>21 additional -- I want to be sure I've got the</p> <p>22 whole list for the adverse reactions</p> <p>23 section. Are there any additional adverse</p> <p>24 reactions that you think should be listed</p> <p>25 here? And I'll ask you about one because I</p>

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<p style="text-align: right;">Page 170</p> <p>1 don't want to play any tricks on you.  2 Groin pain and leg pain is not  3 listed in those bullet points. Should it  4 be, according to your opinion?  5 A. Yes. And let's see. I do address  6 that on page 81.  7 Q. Yeah. And that's why --  8 A. And 82 and 83.  9 Q. -- I'm asking should those be  10 additional -- two additional bullet points  11 that we add to these bullet points on 78 and  12 79?  13 A. Yes. And that's indicated on  14 page 83 where I note that "By no later than  15 2007, Ethicon had the responsibility to  16 update the IFU to advise physicians that  17 leg, groin, inner thigh pain may be chronic,  18 may require analgesics for pain management  19 and may require mesh excision and complete  20 mesh removal, may not be possible. As well,  21 leg movement may be affected and, moreover,  22 the likelihood of this complication is  23 significantly higher for TVT-O implantation  24 versus TVT."  25 Q. So let me be sure I've got a</p>	<p style="text-align: right;">Page 172</p> <p>1 A. Yes.  2 Q. Okay. And now tell me specifically  3 on the leg pain, groin pain issue what  4 exactly you would add to this list  5 language-wise?  6 A. "Leg, groin, inner thigh pain that  7 may be chronic may require analgesics for  8 pain management and may require mesh  9 excision --  10 Q. Okay.  11 A. -- and complete mesh removal may  12 not be possible and leg movement may be  13 affected."  14 Q. So that whole --  15 A. And that the complication -- this  16 goes back to what we were talking about  17 earlier about the frequency, that the  18 likelihood of this complication is  19 significantly higher for TVT-O versus TVT.  20 Q. And so that, what all you just  21 said, ought to be in one bullet point under  22 adverse reactions?  23 A. Some of it might be in the warnings  24 like the TVT -- this is -- the complication  25 rate is higher for TVT-O than for TVT, for</p>
<p style="text-align: right;">Page 171</p> <p>1 complete listing here. As I understand  2 it -- well, first of all, let me ask you.  3 On your first bullet point on page 78,  4 you've got there "Pain, including chronic  5 pain," and then you've got a parenthetical  6 with note.  7 Now, the parenthetical you're not  8 saying should be included in your adverse  9 reactions section for the IFU; correct?  10 A. No. My purpose, if I can explain  11 why I included that, I wanted to be thorough  12 so that you wouldn't look at the fact that  13 the IFU says, "Transient pain lasting 24 to  14 48 hours may occur" and then say, "Well, we  15 do say pain."  16 Q. Right.  17 A. So I'm addressing that I recognize  18 what the IFU says, but what the IFU says is  19 inadequate and incorrect actually.  20 Q. So would the parentheticals that  21 are listed here next to these bullet points,  22 obviously not be what you're saying should  23 be in the TVT-O IFU?  24 A. I'll just check each one.  25 Q. Yeah.</p>	<p style="text-align: right;">Page 173</p> <p>1 example.  2 Q. Okay. Now --  3 A. Because the adverse reactions are  4 supposed to reference warnings. Those that  5 are serious should also reference "See  6 warnings for additional information which  7 may also include limitations of use as a  8 result of the potential for that adverse  9 reaction and what might be done, if  10 anything, to be able to mitigate that risk.  11 Q. Now, are there any other bullet  12 points that we need to add to pages 78 and  13 79 in order for me to have a complete  14 listing of your opinion in this case as far  15 as adverse reactions?  16 A. These are ones that are missing.  17 So obviously, you have the ones that are  18 already in the adverse reaction listing.  19 Q. Right.  20 A. As I sit here today, I think  21 it's -- but we do have the warnings as well.  22 Q. Yeah, I'm going to talk about  23 those.  24 A. Okay.  25 Q. Now, is the listing on page 78 and</p>

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<p style="text-align: right;">Page 174</p> <p>1 79 in the order that you would place it  2 according to clinical significance based on  3 severity and frequency?  4 A. No.  5 Q. How would you order this list?  6 A. I haven't done that evaluation. I  7 would do -- I would go through the process  8 that I talked about earlier is looking at  9 doing an evaluation of the available data  10 through commercial experience, through what  11 the company knew at the time of launch of  12 the product, is documented in the  13 documentation from the company, through the  14 scientific medical literature, through  15 the -- the clinical -- any clinical  16 information that may be available for  17 similar products if not the company's own  18 product, looking at all of that and then  19 evaluating what the percentages of  20 occurrence are, what the range of occurrence  21 is because different studies will report  22 different ranges, look at the frequency,  23 look at the severity, look at the  24 permanency, the chronicity, and then as part  25 of the project team, evaluate that and</p>	<p style="text-align: right;">Page 176</p> <p>1 clinical studies, which there is data  2 available like the groin and thigh pain.  3 There are studies that report in the 20  4 percents ranges for groin and thigh pain in  5 certain studies.  6 Q. Okay.  7 A. And so for things of nature, again,  8 yes, because that then helps a clinician,  9 the surgeon in this case, to understand when  10 he's deciding what type -- what the  11 frequency of dyspareunia is, for example,  12 and whether or not it's short term or long  13 term.  14 That type of information is  15 critical for the surgeon to know as he works  16 with the patient to make a decision is what  17 the best treatment is for this patient.  18 Q. Okay. I'm going to move to strike  19 everything after "yes."  20 Actually, would you read my  21 question back?  22 (Record read by the  23 reporter as follows:  24 Is it your opinion, for instance, that -- let's  25 just assume, if you will for now, that like the  first three are listed in the correct order</p>
<p style="text-align: right;">Page 175</p> <p>1 determine what are the most important ones,  2 what clinicals, which ones should be  3 presented as most clinically significant for  4 this particular device and present them in  5 that way.  6 So it's an evaluation that needs to  7 be undertaken in that type of a framework.  8 Q. Okay. I'm going to move to strike  9 everything after "I have not done that  10 evaluation."  11 Would it be fair to say, though,  12 that at least as you sit here today, you're  13 not intending to tell a jury the order that  14 your bullet points ought to be listed in?  15 A. That's correct.  16 Q. Okay. Now -- oh, one more thing on  17 the bullet points. Is it your opinion, for  18 instance, that -- let's just assume, if you  19 will for now, that like the first three are  20 listed in the correct order according to the  21 Blue Book Memo. All right? Is it your  22 opinion that they also need to have some  23 sort of frequency rate or percentage out  24 beside them?  25 A. If that data is available through</p>	<p style="text-align: right;">Page 177</p> <p>1 according to the Blue Book Memo. All right? Is it  2 your opinion that they also need to have some sort  3 of frequency rate or percentage out beside them?")  4 BY MS. SUTHERLAND:  5 Q. Okay. And I think your answer to  6 that was yes; correct?  7 A. I think I also said that if that  8 information is available from clinical  9 studies.  10 Q. Okay. Is that information  11 available from clinical studies for all of  12 your bullet points on pages 78 to 79?  13 A. One would have to do -- there is  14 information on all of these in the  15 literature, yes, but that -- one would have  16 to do an assessment of the literature and  17 look at ranges that were reported and make  18 determinations so that you could say, you  19 know, ideally this information comes from  20 the company having done its own clinical  21 studies.  22 Q. Have you done the determination as  23 to what the frequency rates ought to be for  24 all of your bullet points?  25 A. I actually have in some of my</p>

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<p style="text-align: right;">Page 178</p> <p>1 reports some that are indicated in some of  2 the systematic reviews that have been done.  3 I've not done and I have looked at that in  4 terms of looking at each one of these and  5 evaluating the entirety of the literature  6 and making a determination for each of these  7 as to what I would include or whether or not  8 it needs to be included for every one.  9 I have not done that determination,  10 but it certainly, for the more clinically  11 significant ones, that's appropriate to do.  12 Q. Okay. And tell me which ones are  13 the more clinically significant ones that  14 you're talking about there?  15 A. Certainly the groin and leg, inner  16 thigh pain, the effect on walking, the  17 erosion, the rates of erosion, the  18 shrinkage, the urinary problems, the ones  19 that occur most frequently.  20 But, again, in order to do that and  21 give the right percentages, one would go  22 through the process that I have already  23 described.  24 Q. Okay. Now, let me turn -- well,  25 let me make sure. Have you given me your</p>	<p style="text-align: right;">Page 180</p> <p>1 they respond to implantation of mesh and the  2 Ethicon documentation reflects that there  3 are certain factors related to individual  4 patients' medical status that might impact  5 how well they would respond to implantation  6 of the device or whether or not it might  7 increase their risk for complications, in  8 other words. So those factors would be  9 appropriately included in the warnings and  10 precautions section.  11 And then the other one is that  12 while the -- with regard to degradation and  13 that the mesh may degrade and that with  14 degradation, that that may impact the safety  15 and effectiveness, whereas I -- if I recall  16 correctly, the IFU states that the product  17 does not degrade.  18 Yes, it says under the action  19 section on the last page, "The material is  20 not absorbed nor is it subject to  21 degradation or weakening by the action of  22 tissue enzymes."  23 Q. Okay. Let me go back to your first  24 point on the patient factors. What specific  25 patient factors are you talking about there</p>
<p style="text-align: right;">Page 179</p> <p>1 opinions that you're going to offer to a  2 jury as to what ought to be under the  3 adverse reaction section of the TVT-O IFU?  4 A. Yes, in terms of missing data, yes.  5 Q. Right. Okay. Now, I'm going to  6 turn to your warnings and precautions.  7 A. Missing adverse reactions, I should  8 say.  9 Q. Yeah. So let me turn to the  10 warnings, and am I correct that the warnings  11 information that you think should be in the  12 TVT-O IFU as of 2010, that is set out on  13 pages 79 and 80 and top of 81 and also  14 includes the leg and groin pain that you and  15 I already talked about?  16 A. That's correct.  17 Q. All right. Is there anything else  18 that you intend to opine ought to be in the  19 warnings section of the TVT-O IFU as of  20 2010?  21 A. There are -- there are two points  22 that I would add.  23 Q. Okay.  24 A. One is that factors that --  25 patient-related factors that may affect how</p>	<p style="text-align: right;">Page 181</p> <p>1 for inclusion under warnings?  2 A. For example, if there's any  3 potential scarring already there as a result  4 of prior surgeries, information of that  5 nature.  6 Q. Okay. Anything else under warnings  7 that you're going to opine about ought to be  8 in the TVT-O IFU as of 2010?  9 A. With regard to the I think -- or I  10 should say with regard to "Chronic pain may  11 result from foreign body reaction and/or  12 scarring and contraction," the information  13 that's provided there, if asked, I would  14 also opine that that scarring and  15 contraction in addition to pain may also  16 result in vaginal tightening and distortion  17 of the vagina.  18 Q. Okay.  19 A. And as regards the dyspareunia,  20 occurring and being persistent --  21 Q. I'm sorry. Where are you?  22 A. Also on top of page 80.  23 Q. Oh, "De novo dyspareunia may occur  24 and be persistent"?  25 A. Yes. That -- that sexual function</p>



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<p style="text-align: right;">Page 182</p> <p>1 may be affected for a lifetime. There's the  2 potential that sexual dysfunction --  3 Q. You're just adding length --  4 A. Between that and the vaginal  5 tightening and narrowing, that between both  6 of those, that there's the potential that a  7 patient would not be able to have sexual  8 intercourse.  9 Q. Okay. Anything else?  10 A. As I sit here today --  11 Q. I know you're trying hard. You've  12 got to come up with one more. That's the  13 best you've got right now?  14 A. Yes.  15 Q. All right. Let me switch gears on  16 you for a minute, and I want to talk to you  17 about sources of information other than the  18 IFU for doctors. Okay?  19 A. I understand.  20 Q. Would you agree that professional  21 education could be a source of information  22 with respect to the risks associated with  23 the TVT-O?  24 A. Yes. It's not the primary source.  25 It is a source.</p>	<p style="text-align: right;">Page 184</p> <p>1 on Ethicon's professional education, as I've  2 described that term to you?  3 A. As I sit here today, no.  4 Q. Okay. Do you agree that doctors  5 can get information about surgical treatment  6 of SUI including the use of TVT-O from  7 medical school training?  8 A. Yes.  9 Q. All right. Depending on --  10 MR. GOSS: Objection. Form.  11 MS. VERBEEK: Objection.  12 THE WITNESS: Depending on the  13 medical school and what the training  14 program is and how extensive their  15 involvement is.  16 BY MS. SUTHERLAND:  17 Q. Do you know if the TVT-O procedure  18 is taught in medical school?  19 A. I don't know that it would be  20 taught in medical school so much as it might  21 be taught in residencies.  22 Q. Okay.  23 A. But I haven't -- I can't say that  24 specifically. I've not studied it.  25 Q. Would medical literature be another</p>
<p style="text-align: right;">Page 183</p> <p>1 Q. Okay. And while I'm on that, I did  2 not see any opinion of yours in your report  3 as to professional education.  4 Do you intend to offer any opinions  5 in the Jennifer Ramirez case about  6 professional education?  7 A. If I understand your question,  8 you're separating professional education  9 separately from the professional labeling  10 which is addressed in my report.  11 Q. Oh, yeah. You and I have talked  12 about the IFU, and I am sure we will again.  13 A. No, no, not that. There's a  14 section in my report that also talks about  15 the promotional labeling.  16 Q. Marketing pieces?  17 A. Yes.  18 Q. Yeah. I'm not talking about that.  19 I'm talking about the actual training  20 sessions, actual professional education  21 where slide decks are shown and cadavers are  22 used. I didn't see any opinions of yours on  23 what I'm calling Ethicon's professional  24 education.  25 Do you intend to offer any opinions</p>	<p style="text-align: right;">Page 185</p> <p>1 source of information for doctors about  2 risks associated with surgical treatment of  3 SUI including TVT-O?  4 A. Yes.  5 Q. Would talking to colleagues be  6 another source of information for doctors?  7 A. Yes, but it would be based on an  8 individual doctor's experience, not on --  9 those are all separate sources, but not the  10 primary sources.  11 Q. Yeah. And what I'm talking to you  12 about are just different sources where  13 doctors can get information about risks and  14 benefits of different surgical options for  15 the treatment of SUI including the option of  16 the TVT-O; right?  17 A. Yes.  18 Q. All right. And, in fact, a  19 surgeon's own clinical experience can be a  20 source of information for him?  21 A. Yes, although that's limited  22 experience, and, you know, there is  23 documentation now in the literature that  24 supports that doctors performing these  25 procedures with mesh may actually not even</p>



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<p style="text-align: right;">Page 186</p> <p>1 know the complications with their own  2 patients because many times patients who  3 have complications don't return to the  4 doctor who did the implantation, such as in  5 the case with Ms. Ramirez.  6 She didn't return to Dr. Reyes to  7 do her revision. She went to other  8 physicians for her revisions. And so that  9 happens, and when that happens, doctors are  10 not aware that their patients have had  11 complications.  12 (Mr. Goss exits the proceeding.)  13 MS. SUTHERLAND: I'm going to  14 move to strike everything after "yes."  15 BY MS. SUTHERLAND:  16 Q. Do you agree that -- should I wait  17 for him to come back?  18 A. Probably.  19 MS. SUTHERLAND: Let's go off.  20 THE VIDEOGRAPHER: Going off  21 the record. The time is approximately  22 1:54 p.m.  23 (Recess taken from  24 1:54 p.m. to 1:54 p.m.)  25 THE VIDEOGRAPHER: Back on the</p>	<p style="text-align: right;">Page 188</p> <p>1 THE WITNESS: Dr. Reyes did.  2 BY MS. SUTHERLAND:  3 Q. Are you aware that some doctors do  4 not read IFUs before implanting surgical  5 mesh?  6 MS. VERBEEK: Objection. Form.  7 MR. GOSS: Objection. Form.  8 THE WITNESS: There may be some  9 doctors who don't. But without asking  10 every doctor, I can't say that. And  11 irregardless, whether that happens or  12 not, it's the manufacturer's  13 responsibility to be sure that the IFU  14 is -- contains all the necessary  15 information for safe and effective use  16 of the product, and it's truthful and  17 accurate and not misleading.  18 BY MS. SUTHERLAND:  19 Q. Okay. I'm going to move to strike  20 everything after your first phrase and  21 response.  22 In your opinion, how often should a  23 doctor read a device IFU?  24 MR. GOSS: Objection. Form,  25 foundation.</p>
<p style="text-align: right;">Page 187</p> <p>1 record. The time is approximately  2 1:54 p.m.  3 BY MS. SUTHERLAND:  4 Q. All right. Dr. Pence, do you agree  5 that doctors who implanted the TVT-O may  6 have learned of the risks of that device  7 through means other than the IFU?  8 MR. GOSS: Objection. Form.  9 MS. VERBEEK: Same objection.  10 THE WITNESS: Some doctors may  11 have learned of some of the risks  12 through other means, but that, again,  13 would be an assumption. It's not the  14 primary means of communicating risks to  15 the doctor. The primary means is the  16 IFU. So one can't rely on a doctor  17 having learned about the risks on --  18 based on other sources.  19 BY MS. SUTHERLAND:  20 Q. Okay. I'll move to strike  21 everything after your first phrase.  22 Are you aware that some doctors  23 don't read the IFU before implanting  24 surgical mesh?  25 MR. GOSS: Objection. Form.</p>	<p style="text-align: right;">Page 189</p> <p>1 MS. VERBEEK: Same objection.  2 BY MS. SUTHERLAND:  3 Q. Or do you have an opinion on that?  4 You may not. I don't know.  5 A. Dr. Reyes testified he went back to  6 it many times and reviewed it. It  7 definitely should be reviewed any time  8 there's new information that is important to  9 the doctor.  10 Q. How would a doctor know there's new  11 information if he doesn't review it?  12 MR. GOSS: Objection. Form.  13 THE WITNESS: Well, if there's  14 an IFU in every mesh package, and if the  15 manufacturer wants to ensure that the  16 physician knows that there is an update  17 that's important for him or her to know,  18 then a red card, for example, there are  19 different means where that can be  20 attached with a new IFU that says,  21 "Please refer to section adverse  22 reactions and warnings when new  23 information has been added for the safe  24 and effective use of this product" or  25 some similar wording, or a Dear Doctor</p>

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<p style="text-align: right;">Page 190</p> <p>1 letter can be sent out saying, "We've 2 updated the IFU. Here's a copy. This 3 is the information that's changed. We 4 feel it's important for you to know 5 that." 6 BY MS. SUTHERLAND: 7 Q. How many Dear Doctor letters have 8 you seen from pelvic mesh manufacturers? 9 MR. GOSS: Objection. Form. 10 THE WITNESS: I've seen at 11 least one. I don't recall how many 12 total I've seen but -- 13 BY MS. SUTHERLAND: 14 Q. The one you're recalling, was that 15 in relation to updated labeling? 16 A. It was, if I'm recalling correctly, 17 in relation to this 2011 public -- the 18 advisory committee meeting, FDA advisory 19 committee meeting, and there may have been 20 one as well with regard to removing certain 21 meshes from the market. 22 Q. With respect to 2011 Ad Com 23 meeting, who sent out that Dear Doctor 24 letter? 25 MR. GOSS: Objection. Form.</p>	<p style="text-align: right;">Page 192</p> <p>1 study of surgeons who conduct surgical 2 repair of SUI to determine what risks 3 they're aware of, not from reading the IFU, 4 but from their medical school or residency 5 training? 6 A. Have I conducted a survey? 7 Q. Right. 8 A. I've not conducted a survey, no. 9 Q. All right. Have you conducted a 10 survey of surgeons trained in the surgical 11 treatment of SUI to determine what risks of 12 a mesh device they understood, not from 13 reading the IFU, but from their professional 14 education training? 15 A. Can you just repeat the question, 16 please? 17 Q. Yeah, it's a long one. 18 A. Yes, I know. 19 Q. Have you conducted any study or 20 survey of surgeons trained in the surgical 21 treatment of SUI to determine what risks of 22 the TVT-O they understood, not from reading 23 the IFU, but from participating in 24 professional education? 25 MR. GOSS: Objection. Form.</p>
<p style="text-align: right;">Page 191</p> <p>1 BY MS. SUTHERLAND: 2 Q. Which manufacturer? 3 A. As I sit here today, to the -- I 4 would need to check my memory. 5 Q. Okay. Do you know whether or not 6 it was Ethicon? 7 A. I think it may have been Ethicon, 8 but I would need to confirm my memory. 9 Q. Would you trust me if I said it 10 was? 11 A. Yes. 12 MR. GOSS: Doesn't sound like 13 them. 14 MS. SUTHERLAND: Move to 15 strike. 16 THE WITNESS: However, I think 17 if you have that, we can talk about it 18 as to whether or not the information in 19 there was exactly what should have been 20 included. 21 BY MS. SUTHERLAND: 22 Q. When was Ms. Ramirez implanted? 23 A. In -- if I recall correctly, it was 24 September of 2010. 25 Q. All right. Now, have you done any</p>	<p style="text-align: right;">Page 193</p> <p>1 THE WITNESS: I've not. As 2 regards to a particular survey, I've not 3 conducted such a survey. 4 BY MS. SUTHERLAND: 5 Q. All right. Have you conducted any 6 study or survey of surgeons trained in 7 surgical treatment of SUI who implanted 8 TVT-O to determine what risks of the TVT-O 9 they understood from reading medical 10 literature as opposed to reading the IFU? 11 MR. GOSS: Objection. Form. 12 THE WITNESS: No, I haven't, 13 and it's not relevant to my opinion as 14 to what should go into the IFU. My 15 opinion would be the same regardless of 16 what the answer to any of those surveys 17 would be because, again, the IFU is the 18 primary communication between the doctor 19 and the surgeon -- I mean, between the 20 company and the surgeon. 21 BY MS. SUTHERLAND: 22 Q. And I move to strike everything 23 after "No, I haven't." 24 Last one on that. Have you 25 conducted any study or survey of surgeons</p>

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<p style="text-align: right;">Page 194</p> <p>1 trained in the surgical treatment of SUI to  2 determine what risks of the TVT-O they  3 understood, not from reading the IFU, but  4 from their own clinical experience  5 implanting the TVT-O?  6 MR. GOSS: Objection. Form.  7 MS. VERBEEK: Same objection.  8 THE WITNESS: Again, the --  9 whether or not I -- the answer to any  10 such survey would not impact my opinion  11 as to what should be in the IFU, and  12 I've not conducted such a survey. But  13 also to that point, their own clinical  14 experience may not be representative of  15 the risks of the points I mentioned a  16 little while ago that patients who  17 experience serious complications, and  18 it's reflected in the literature, do not  19 often return to the implanting  20 clinician.  21 So the implanting surgeon would  22 not know about those risks. So their  23 experience may not be a very accurate  24 reflection of what the complication rate  25 is, and it would be foolhardy to rely on</p>	<p style="text-align: right;">Page 196</p> <p>1 MR. GOSS: Objection. Form.  2 BY MS. SUTHERLAND:  3 Q. All right. And there are over 60  4 RCTs or randomized control trials for TVT-O?  5 MR. GOSS: Objection. Form.  6 THE WITNESS: Yes, not  7 necessarily conducted by Ethicon.  8 BY MS. SUTHERLAND:  9 Q. And is it your understanding that  10 there are over a thousand studies -- I'm not  11 saying RCTs but over a thousand studies on  12 TVT?  13 MR. GOSS: Objection. Form.  14 THE WITNESS: I have seen that  15 number, yes.  16 BY MS. SUTHERLAND:  17 Q. Okay. Have you looked at the  18 patient brochure for the TVT-O in this case?  19 A. My understanding that Ms. Ramirez,  20 if I'm recalling correctly, does not recall  21 having received a brochure, although I  22 believe, to the best of my recollection as I  23 sit here today, Dr. Reyes thought he would  24 have given her one, but she did not  25 recall -- if I'm recalling correctly, she</p>
<p style="text-align: right;">Page 195</p> <p>1 their experience only.  2 BY MS. SUTHERLAND:  3 Q. All right. I'm going to move to  4 strike.  5 Is the answer to my question that  6 you have not conducted any such survey or  7 study?  8 MR. GOSS: Objection. Form.  9 THE WITNESS: Yes, for the  10 reasons I mentioned.  11 BY MS. SUTHERLAND:  12 Q. Okay. Talking about different  13 studies, do you agree that there are more  14 clinical studies evaluating safety and  15 efficacy of TVT than any other device used  16 to treat SUI?  17 MR. GOSS: Objection. Form.  18 THE WITNESS: I think,  19 actually, that's from your report.  20 That's my understanding, yes.  21 BY MS. SUTHERLAND:  22 Q. All right. Do you have an  23 understanding that there are over 100 RCTs  24 or randomized control trials for TVT?  25 A. That's my understanding.</p>	<p style="text-align: right;">Page 197</p> <p>1 did not recall having received one.  2 Q. All right. I thought I was done  3 with these questions. A couple more.  4 Have you conducted a study or  5 survey to determine whether the inclusion,  6 for instance, of your bullet points for the  7 adverse reactions on pages 78 to 79 in the  8 TVT-O IFU would have changed any doctor's  9 decision to implant TVT-O?  10 MS. VERBEEK: Objection to  11 form.  12 MR. GOSS: Objection. Form.  13 THE WITNESS: You're speaking  14 about just the adverse reactions, or  15 you're talking about the warnings as  16 well?  17 ///  18 BY MS. SUTHERLAND:  19 Q. Well, for now for my question,  20 let's look at just the adverse reactions  21 and -- let me ask it again to make sure I've  22 got it clean.  23 Have you done any kind of study or  24 survey of surgeons trained in the surgical  25 treatment of SUI to determine whether or not</p>

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<p style="text-align: right;">Page 198</p> <p>1 the inclusion of your listed adverse  2 reactions on pages 78 to 79 of your report  3 would have changed their decision to implant  4 TVT-O?  5 MR. GOSS: Objection. Form.  6 THE WITNESS: I've not done a  7 survey.  8 MS. VERBEEK: Objection.  9 BY MS. SUTHERLAND:  10 Q. Okay. In your report, I think it's  11 on page 60, you list out what was listed in  12 the FDA's public health notice from 2008, if  13 you want to turn to that.  14 A. Which page?  15 Q. Page 60.  16 A. Page 60.  17 Q. And I'm actually just curious about  18 this. Is it your opinion that the  19 complications that the FDA listed in its  20 2008 PHN --  21 A. You're on page 60?  22 Q. Yeah. Are you not there?  23 A. My page 60 is Section 7 "TVT  24 Classic and TVT Obturator: Known/Knowable  25 Risks."</p>	<p style="text-align: right;">Page 200</p> <p>1 have known about.  2 But remember, the public health  3 notification was based on an evaluation  4 of the MAUDE database. And so this was  5 information coming from one of the  6 sources of information that was  7 available for identifying potential  8 risks with the TVT-O and other sling --  9 polypropylene slings.  10 BY MS. SUTHERLAND:  11 Q. They look at literature too; right?  12 A. That was in 2011. They did --  13 you're talking about now about the 2008  14 public health notification.  15 Q. Yeah. Are you saying FDA had not  16 reviewed literature for the risks associated  17 with pelvic mesh --  18 A. The 2008 public health  19 notification --  20 (Simultaneous discussion  21 interrupted by the reporter.)  22 MR. GOSS: She's going to have  23 a long enough day as it is. Let's try  24 to not step on each other.  25 THE WITNESS: I'm sorry. The</p>
<p style="text-align: right;">Page 199</p> <p>1 Q. Uh-huh.  2 A. And you said something about the --  3 Q. And then you've got -- yeah -- your  4 paragraph talks about --  5 A. Oh, you're talking about -- I see.  6 I have a section on FDA. I thought you  7 might be in that section. I'm sorry.  8 Q. No, no, no. Let me make sure -- I  9 thought I had this right. Are the bullet  10 points that you've listed there on pages 60  11 to 61 the adverse reactions listed by the  12 FDA in its PHN in 2008?  13 A. Yes.  14 Q. Okay. Now, is it your opinion that  15 if an IFU in 2008 had included these bullet  16 points in its adverse reactions, that it  17 would have been adequate or inadequate?  18 MR. GOSS: Objection. Form.  19 THE WITNESS: No. It still  20 would have been inadequate. At this  21 point in 2008, you know, what I've  22 stated here is that Ethicon knew about  23 all of the following complications  24 identified in the 2008 PHN, and I've  25 listed the ones that they testified they</p>	<p style="text-align: right;">Page 201</p> <p>1 2008 public health notification, to the  2 best of my recollection, and I can just  3 verify that, was based on a review of  4 the MAUDE database.  5 It was in 2011 that the FDA  6 conducted an evaluation of the  7 scientific and medical literature from  8 1996 through 2011. So what I'm saying  9 is that the 2008 public health  10 notification was based only on one  11 source of information, whereas Ethicon  12 had available to it not only its own  13 internal documentation where a number of  14 different ones of its senior staff have  15 testified that all of these risks were  16 known about at the time of launch, but  17 also they had available to their own  18 internal complaints, and there are, in  19 their own internal complaints, their  20 issue reports, a number of issues that,  21 in my opinion, a number of adverse  22 reactions, in my opinion, that should  23 have been submitted as MDR reports but  24 that were not.  25 FDA didn't have access to</p>

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<p style="text-align: right;">Page 202</p> <p>1 those. The company did as well as the  2 scientific and medical literature as  3 well as the information from the experts  4 and with their summit meetings, with the  5 experts that they met with.  6 They had -- that's why the  7 manufacturer is the greatest repository  8 of the information related to their own  9 product. So this information definitely  10 should have been in there, but there was  11 more beyond that that should have be  12 included.  13 BY MS. SUTHERLAND:  14 Q. I'm going to respectfully move to  15 strike that answer and the previous answer  16 after "No, it was not adequate" because I  17 think my question to you was: Was this  18 listing by FDA in 2008 of adverse reactions  19 adequate had it been in an IFU for a pelvic  20 mesh device in 2008?  21 A. No, for the reasons I explained.  22 Q. All right. Was mesh erosion a  23 well-known complication in 2008?  24 A. Yes.  25 Q. All right. Was infection a</p>	<p style="text-align: right;">Page 204</p> <p>1 MS. VERBEEK: Form.  2 THE WITNESS: -- what every  3 surgeon -- what was well known to every  4 surgeon. That's the reason the  5 information -- I keep going back to the  6 purpose of the IFU and the reason that  7 information has to be in the IFU. The  8 company was well aware of these, as is  9 noted here in my report.  10 There are a number of senior  11 employees, senior executives at Ethicon  12 that have testified that all of these --  13 all of this information was known to  14 Ethicon at the time of launch. And in  15 my own analysis, which I presented in my  16 report, I did the analysis as to what  17 was known at time of launch based on  18 MAUDE database, based on internal  19 documentation, deposition testimony,  20 based on the scientific literature, and  21 I was able to make that analysis of  22 everything that should have been in the  23 IFU at time of launch back in, 2000 --  24 end of 2003, 2004 and was missing.  25 BY MS. SUTHERLAND:</p>
<p style="text-align: right;">Page 203</p> <p>1 well-known complication in 2008?  2 A. Yes.  3 Q. Was pain a well-known complication  4 in 2008?  5 A. Yes. You're talking about well  6 known to the company?  7 Q. No. I'm talking about well known  8 to users of the device such as a TVT  9 meaning --  10 A. I'm talking about well known to the  11 company.  12 Q. Was mesh erosion well known to  13 users of surgical -- of mesh devices, pelvic  14 mesh devices, in 2008, or do you know?  15 MR. GOSS: I'm going object to  16 the form of the question.  17 MS. VERBEEK: Objection. Form.  18 MR. GOSS: You're unclear as to  19 well known to who?  20 BY MS. SUTHERLAND:  21 Q. Now do you know I'm talking about  22 surgeons that are trained in the surgical  23 treatment of SUI?  24 A. I can't tell you --  25 MR. GOSS: Objection to form.</p>	<p style="text-align: right;">Page 205</p> <p>1 Q. I'm going to move to strike  2 everything after "No, I can't tell you what  3 was known by surgeons."  4 Is it your opinion that the adverse  5 reactions that were listed in the FDA's 2008  6 PHN were listed according to the descending  7 order as set out in the Blue Book Memo?  8 MR. GOSS: Objection. Form.  9 THE WITNESS: Do you have a  10 copy of the 2008 public health  11 notification with you?  12 BY MS. SUTHERLAND:  13 Q. I do not. Tim might.  14 MR. GOSS: I might. Give me  15 one second and I can get it for you.  16 It's next door.  17 MS. SUTHERLAND: Actually,  18 let's take a break.  19 THE VIDEOGRAPHER: With the  20 approval of counsel. Going off the  21 record. The time is approximately  22 2:14 p.m.  23 (Recess taken from  24 2:14 p.m. to 2:27 p.m.)  25 THE VIDEOGRAPHER: With the</p>

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<p style="text-align: right;">Page 206</p> <p>1 approval of counsel, back on the record.  2 The time is approximately 2:27 p.m.  3 BY MS. SUTHERLAND:  4 Q. Dr. Pence, I had marked the 2008  5 PHN as Exhibit Number 11.  6 Do you have that in front of you?  7 A. I do.  8 (Exhibit Number 11 was  9 marked for identification.)  10 BY MS. SUTHERLAND:  11 Q. All right. And now, am I correct  12 that that PHN sets out certain complications  13 associated with pelvic mesh?  14 Do you see that?  15 A. Yes, I do.  16 Q. All right. And now, is it your  17 understanding or is it your opinion that the  18 complications that are listed in that  19 paragraph starting "The most frequent" are  20 actually listed in the appropriate order  21 under the Blue Book Memo?  22 MR. GOSS: Objection. Form.  23 THE WITNESS: Yes. And I was  24 just going to make that point that you  25 can see that FDA lists the most frequent</p>	<p style="text-align: right;">Page 208</p> <p>1 was based on data from 2005 to 2007, if  2 I recall correctly.  3 BY MS. SUTHERLAND:  4 Q. And while we're on that, let me ask  5 you something while you're on page 117 of  6 your report. Were you able to duplicate a  7 search of the MAUDE database and come up  8 with the 1371 total number of MDRs like the  9 FDA did?  10 A. I didn't look at all nine  11 manufacturers. I have shown and I show on  12 my report for TVT and TVT-O what the numbers  13 of reports of these particular events are  14 and how they are representative in the order  15 of frequency of the adverse reactions for  16 those two devices are representative of the  17 nine manufacturers' events that were -- I  18 believe it was nine manufacturers, if I  19 recall correctly as I sit here today, that  20 were included in FDA's assessment.  21 Q. Okay. I don't think you answered  22 my question.  23 A. I think I understand your question.  24 I think I did. I think I said I haven't  25 looked at all nine manufacturers.</p>
<p style="text-align: right;">Page 207</p> <p>1 complications, and that's what they  2 relied on, and I wanted to just verify  3 that in the 2008 PHN, it did note that  4 those were the most frequent.  5 It's also reflected -- if you  6 look in my report on page -- let me find  7 it again. On page 117, I have a tabular  8 presentation of the number percent of  9 adverse events for SUI reported to MAUDE  10 from 2008 to 2010, which was the data  11 that was reflected in the 2000 -- FDA's  12 2011 safety communication.  13 And you can see there that the  14 numbers of reports of pain, erosion, and  15 so forth and you can see the order of  16 frequency. And the total number of --  17 the total number of reports included for  18 SUI in that MAUDE evaluation was 1371.  19 So you can see the percent of those 1371  20 reports that included pain. It was  21 34.9 percent.  22 So for the 2008 to 2010 data,  23 you can see that the listing of the most  24 frequent complications is very similar  25 to the listing in the 2000/2008, which</p>	<p style="text-align: right;">Page 209</p> <p>1 Q. So you have not attempted to  2 duplicate FDA's search to come up with the  3 1371 that FDA came up with that's listed in  4 the PHN; correct?  5 A. No, not that specifically. I  6 relied on FDA's evaluation for that. But  7 what I did do as relevant to my report is  8 look into TVT and TVT-O to see how the data  9 for TVT and TVT-O compared to FDA's data  10 across the multiple manufacturers. And to  11 that point, in one of the reports, FDA noted  12 that the -- there did not seem to be a  13 difference across the types of events that  14 were reported across manufacturers.  15 Q. Okay. Let me ask it again. Did  16 you try to duplicate FDA's search that they  17 listed actually in their 2011 safety update  18 where they listed a total number of SUI  19 reports being 1,371?  20 A. No. I specifically looked at  21 certain manufacturers and certain products  22 for those manufacturers.  23 Q. When you're looking at your  24 Table 9.1 on page 117 --  25 A. Yes.</p>



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<p style="text-align: right;">Page 210</p> <p>1 Q. -- and you have there pain, 479 2 number of reports of pain. 3 Do you see where I am? 4 A. Yes. 5 Q. And then you say that's 6 34.9 percent. 7 Do you see where I am there? 8 A. Yes. 9 Q. You are saying that 479 number of 10 reports of pain is 34.9 percent of the 1371? 11 A. Yes. 12 Q. All right. But let me ask you 13 this. Did FDA find 479 reports of pain out 14 of their 1,371? 15 A. I believe this information came 16 directly from their report, yes. That was 17 their finding. 18 Q. From the 2011 safety update? 19 A. Yes. Based on their review of the 20 MAUDE database from 2008 to 2010, to the 21 best of my recollection as I sit here today. 22 Let me just take a look and confirm. 23 Q. I didn't recall the 2011 safety 24 update setting out the number of reports of 25 pain, the number of reports of erosion.</p>	<p style="text-align: right;">Page 212</p> <p>1 A. No. I took -- I took FDA's numbers 2 that they presented, which, again, if I 3 recall, and I believe it's in my report, but 4 if I recall correctly as I sit here today, 5 this was across nine manufacturers, and I 6 can look it up and verify that as well. 7 But I looked at TVT and TVT-O for 8 that same time period, 2008 to 2010 -- 9 Q. Yeah. 10 A. -- and found for TVT and TVT-O, 228 11 reports of pain. And as you see in this 12 table, I've shown that that was 47.6 percent 13 of the total number of reports of pain, 14 according to FDA's numbers. 15 Q. Right. But my question to you is: 16 What search did you run to find pain in the 17 TVT/TVT-O reports, and how does that search 18 compare to what FDA ran to find 479 reports 19 of pain in order to make your percentage 20 valid? 21 A. I downloaded the MAUDE -- 22 MR. GOSS: Objection. Form. 23 THE WITNESS: We downloaded the 24 MAUDE database and pulled from the MAUDE 25 database and got -- in one of the</p>
<p style="text-align: right;">Page 211</p> <p>1 A. You have to look at the executive 2 summary and the information behind that that 3 FDA -- 4 Q. Is that where the numbers are 5 coming from? 6 A. To the best of my recollection, 7 that's correct. I probably have it 8 footnoted. Let me -- to the best of my 9 recollection as I sit here today, that's 10 where that -- those are FDA's numbers, not 11 mine. 12 Q. Okay. And then, if I'm 13 understanding you correctly, if you turn to 14 page 123 of your report -- 15 A. Yes. 16 Q. -- are you saying that, for 17 instance, on the row of pain going across 18 there -- 19 A. Yes. 20 Q. -- that TVT, TVT-O reports are 228 21 of those reports out of those 479? 22 A. That's correct. 23 Q. All right. Did you do a search and 24 find 479 reports of pain out of which you 25 culled the TVT/TVT-O reports of 228?</p>	<p style="text-align: right;">Page 213</p> <p>1 exhibits, it describes the methodology 2 that we used to download the MAUDE 3 database. And from the MAUDE database, 4 there -- in all the MDR reports, there's 5 an event description, and we went 6 through each individual event 7 description and pulled out every one 8 after removing duplicates -- 9 BY MS. SUTHERLAND: 10 Q. I'm going to ask you about that. 11 A. Removing duplicates, pulled out the 12 numbers of reports of pain. And, for 13 example, and I think it's important to note, 14 if there was more than -- if more than one 15 type of pain was reported for a particular 16 patient, for this number, only -- the 17 patient was only recorded once as a patient 18 having pain. 19 So we're not saying that this is -- 20 this is 228 patients is the point I'm trying 21 to make who experienced one or more types of 22 pain. And we -- FDA analyzed their own 23 MAUDE database and looking at their own 24 database, they came up with 479 reports 25 across the nine manufacturers that they</p>

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<p style="text-align: right;">Page 214</p> <p>1 looked at, and from analyzing the very same  2 database for TVT and TVT-O only, we found  3 228 reports.  4 Q. Yeah. And I follow that. But my  5 question is: Did you do any kind of quality  6 check with the searches you were running to  7 find the TVT and TVT-O reports of pain to  8 ensure that you would have also found only  9 479 reports of pain like the FDA found?  10 A. If I understand your question as  11 you've asked it, the evaluation that we did  12 is accurate. We didn't then try to validate  13 that FDA evaluated their own database  14 accurately.  15 Q. Or even ran the same search that  16 you did to try to find the same number of  17 reports. Fair?  18 A. Well, we downloaded TVT and TVT-O  19 and any terms that were -- any like TVT  20 obturator, TVT-O, TVTO, we looked at  21 everything that was TVT, TVT-O. There are  22 different ways that something may be  23 represented. You know, the reports may  24 represent, for example, TVT-O in a different  25 way. TVT may be TVT or TVT classic or TVT</p>	<p style="text-align: right;">Page 216</p> <p>1 manufacturers, then they're trying to be  2 comprehensive. Then it may be more. I  3 mean, there are more than nine  4 manufacturers; so they looked at nine  5 manufacturers.  6 Q. And if I'm understanding this chart  7 that you have on 123, you are assuming in  8 order to reach your percentage of all SUI  9 mesh reports, that last column?  10 A. Yes.  11 Q. You are assuming that your number  12 of reports for your TVT-O column came out of  13 the very same number of all mesh product  14 reports that FDA found?  15 A. State that last sentence again.  16 Q. Sure. For instance, in order to  17 reach your number here on your chart on the  18 first column that the percentage of TVT and  19 TVT-O reports of pain for all SUI mesh  20 reports is 47.6 percent, you are assuming  21 that this number of TVT and TVT-O reports of  22 228 came out of this number, 479.  23 Aren't you making that assumption?  24 A. Not exactly.  25 MR. GOSS: Objection. Form.</p>
<p style="text-align: right;">Page 215</p> <p>1 retropublic.  2 There are various ways in which the  3 information may be, by product, recorded,  4 but it's all TVT or all TVT-O. We  5 downloaded all of those that were TVT and  6 all that were TVT-O.  7 Q. I got that part.  8 A. I understand.  9 Q. My question is: How are you  10 validly comparing it to FDA's number of 479  11 total complaints of pain without knowing  12 what terms and how FDA did that search to  13 see if you'd come up with the same number of  14 total complaints of pain that FDA did?  15 A. Well, FDA did this across nine  16 manufacturers. I did not try and duplicate  17 FDA's data, but FDA said that this is what  18 they found in their own MAUDE database, and  19 I looked at the same information for the  20 same time period for TVT and TVT-O. So if  21 FDA's numbers were wrong, then --  22 Q. Or just different because they ran  23 a different type of search than you did.  24 Isn't that possible?  25 A. If you're downloading all nine</p>	<p style="text-align: right;">Page 217</p> <p>1 THE WITNESS: I don't use the  2 word "assume," and I'm not using it for  3 that basis. I'm saying that of 479  4 reports that FDA reported and with  5 Ethicon and TVT and TVT-O being one of  6 the major manufacturers, that if you  7 look at that number and you look at what  8 we were able to download for TVT-O,  9 using that number, those numbers alone  10 standalone, but I wanted to compare what  11 percentage based on the total that FDA  12 had found, and if you look at the total  13 that FDA reported, I'm not assuming how  14 they did except that they said across  15 nine manufacturers, and one they based a  16 public health notification on this  17 information.  18 I didn't try and duplicate that  19 data, if that's what you're asking. But  20 I didn't -- I looked at this based on  21 479 reports that they said they found  22 across the manufacturers that they  23 looked at that I found this many  24 reports. And that would be 47.6 percent  25 as the total.</p>

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<p style="text-align: right;">Page 218</p> <p>1 BY MS. SUTHERLAND:</p> <p>2 Q. Yeah. And my question just is: I</p> <p>3 mean, aren't I correct that in order to get</p> <p>4 your 47.6 percent of pain, that you're</p> <p>5 taking that 228 number of TVT/TVT-O reports</p> <p>6 and doing some sort of division with this</p> <p>7 479 number from FDA?</p> <p>8 A. Yes, that's correct.</p> <p>9 Q. All right. And am I also correct</p> <p>10 that you didn't do some sort of quality</p> <p>11 check to ensure that you would have found</p> <p>12 the same number of reports, meaning 479,</p> <p>13 with your search terms that you used to find</p> <p>14 the TVT and TVT-O reports of pain?</p> <p>15 MR. GOSS: Objection. Form.</p> <p>16 THE WITNESS: Let me check one</p> <p>17 thing here quickly. It was in the</p> <p>18 2000 -- I just wanted to double-check my</p> <p>19 figure of nine. It was in the 2008 FDA</p> <p>20 public health notification that they</p> <p>21 noted that the reports of complications</p> <p>22 were from nine surgical mesh</p> <p>23 manufacturers of surgical mesh devices</p> <p>24 used to repair pelvic organ prolapse and</p> <p>25 stress urinary incontinence. That's</p>	<p style="text-align: right;">Page 220</p> <p>1 Q. Did you run -- well, tell me what</p> <p>2 search you ran for TVT and TVT-O to allow</p> <p>3 you to come up with 228 reports of pain.</p> <p>4 A. It's in the exhibit -- it's in the</p> <p>5 Exhibit 1, I believe, to my report that</p> <p>6 gives you -- that shows you the methodology,</p> <p>7 and it also provides a tabular presentation</p> <p>8 for TVT and TVO by year of the numbers of</p> <p>9 reports.</p> <p>10 Q. Yeah, and maybe I can cut to the</p> <p>11 chase. Did you do a term search for "pain"</p> <p>12 to come up with the 228 MDRs?</p> <p>13 A. What you have to do in that -- when</p> <p>14 you're doing a manual download, you have to</p> <p>15 read through every event description, and we</p> <p>16 downloaded the information into an Excel</p> <p>17 database, and then you have to read through</p> <p>18 every event description to pull out the</p> <p>19 adverse events that are reported, and then</p> <p>20 we tabulated those in Access and did an</p> <p>21 assessment of total number of pain.</p> <p>22 Q. Okay. And so how are you able to</p> <p>23 tell me that the way that you did your</p> <p>24 analysis to pull out the 228 reports of pain</p> <p>25 for TVT and TVT-O would have gotten you the</p>
<p style="text-align: right;">Page 219</p> <p>1 where the nine. I just wanted to verify</p> <p>2 the nine manufacturers.</p> <p>3 Now to your specific question,</p> <p>4 I did not verify FDA's numbers, but I</p> <p>5 think maybe there's a disconnect in</p> <p>6 understanding that we pulled everything</p> <p>7 for TVT and TVT-O that we could find.</p> <p>8 BY MS. SUTHERLAND:</p> <p>9 Q. No, I got that.</p> <p>10 A. And FDA pulled the information that</p> <p>11 it found for manufacturers that made SUI</p> <p>12 mesh products.</p> <p>13 Q. And I got that.</p> <p>14 A. And I didn't verify that FDA did</p> <p>15 their analysis correctly. I think that's</p> <p>16 what you're asking to do my percentage.</p> <p>17 Q. No. I'm not asking whether or not</p> <p>18 FDA did it correctly. What I'm asking is</p> <p>19 whether or not you ran a similar search for</p> <p>20 pain as FDA did for pain when you were</p> <p>21 finding your TVT and TVT-O reports.</p> <p>22 MR. GOSS: Objection. Form.</p> <p>23 THE WITNESS: Yes, I did for</p> <p>24 TVT and TVT-O.</p> <p>25 BY MS. SUTHERLAND:</p>	<p style="text-align: right;">Page 221</p> <p>1 same number that FDA got had you done it for</p> <p>2 all nine mesh manufacturers, the same number</p> <p>3 being 479?</p> <p>4 A. Well, the information, whether I'm</p> <p>5 reviewing it or FDA is reviewing it, the</p> <p>6 information that is in the event description</p> <p>7 doesn't change, and that's where the</p> <p>8 information is located.</p> <p>9 Q. I guess what I'm getting at is do</p> <p>10 you know if a report listed pain, erosion,</p> <p>11 and infection, did FDA put that report in</p> <p>12 each separate row there for pain, erosion,</p> <p>13 and infection? Or did it pick one and say,</p> <p>14 you know what? For this report, I'm going</p> <p>15 to put it just in erosion?</p> <p>16 MR. GOSS: Objection. Form.</p> <p>17 THE WITNESS: Ethicon picked</p> <p>18 one.</p> <p>19 BY MS. SUTHERLAND:</p> <p>20 Q. Well, I'm asking do you know how</p> <p>21 FDA did it so that you can say that your</p> <p>22 percentage in this last column is valid</p> <p>23 based on you and FDA performing the same</p> <p>24 search to reach the same numbers?</p> <p>25 MR. GOSS: Objection. Form.</p>

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<p style="text-align: right;">Page 222</p> <p>1 THE WITNESS: Do you have the 2 executive summary? With -- my 3 recollection is this is the total number 4 of patients in which they found pain, 5 and they would have counted those 6 appropriately. They would have 7 accounted those separately. I don't 8 recall, as I sit here today, without 9 going back and looking at the 10 information. I don't recall exactly 11 how -- what they described as their 12 methodology, but having done many 13 adverse event assessments over the 14 course of my career, if you -- if a 15 patient has pain and erosion and 16 infection, you don't just choose one of 17 them. You report every one. 18 BY MS. SUTHERLAND: 19 Q. And do you know if that's what FDA 20 did in order to reach their numbers in that 21 first column on page 123? 22 A. To the best of my recollection as I 23 sit here today, that is correct, but I would 24 need to go back and review that. If you 25 have it, I'd be happy to take a look at it.</p>	<p style="text-align: right;">Page 224</p> <p>1 For this number, the numbers of 2 patients with pain was exactly that. 3 The number of patients with pain, not 4 the number of episodes of pain. As I 5 note here, the total number of reports 6 is greater than the number of MDRs 7 because most MDRs reported more than one 8 adverse event. 9 BY MS. SUTHERLAND: 10 Q. Okay. I think I'm going to move to 11 strike that answer. 12 Would you read my question back. 13 (Record read by the 14 reporter as follows: 15 THE WITNESS: I think I 16 answered that. I think I told you -- 17 MR. GOSS: Wait, wait. The 18 ball is in her court. 19 THE WITNESS: Sorry. 20 BY MS. SUTHERLAND: 21 Q. Can you answer that question? 22 MR. GOSS: That's what you get. 23 THE WITNESS: Sorry. I think 24 I -- I answered that. I said that -- 25 I've answered that in the last couple of</p>
<p style="text-align: right;">Page 223</p> <p>1 I just -- I can't recall specifically that 2 without looking back at the document. 3 Q. Did you make an attempt to perform 4 your search and inclusion of reports in the 5 same manner that FDA had as set out in what 6 you're telling me is in the executive 7 summary? 8 MR. GOSS: Objection. Form. 9 THE WITNESS: I did the most 10 comprehensive assessment we could do, 11 which was to pull all the MDR reports 12 for any description of TVT, any 13 description of TVT-O, remove duplicates, 14 and read through the event description, 15 and every adverse event that was noted 16 was recorded, and then our tabulations 17 were done based on that. 18 With the point also that I was 19 making that if the patient had several 20 different types of pain reported, we 21 didn't report that patient twice. We 22 reported, and you'll see in the exhibit 23 that you can see the total numbers of 24 reports of pain versus the total numbers 25 of patients with pain.</p>	<p style="text-align: right;">Page 225</p> <p>1 questions. If you have the document 2 that describes FDA, what FDA did, I can 3 go back and just verify my recollection. 4 Without that document, I'm giving you 5 the best information I can with regard 6 to my recollection -- 7 BY MS. SUTHERLAND: 8 Q. Okay. 9 A. -- as to how FDA -- what FDA did. 10 What we did, you can't be more comprehensive 11 than what we did -- 12 Q. I know you're comprehensive. 13 A. -- for looking at TVT and TVT-O, 14 and it was a very laborious process to go 15 through each of these, and we were as 16 conservative as possible, like removing 17 duplicates, and clearly, and that's the 18 appropriate way to report adverse events. 19 You don't -- you know, if you're 20 looking at total number of patients with 21 pain, you don't count a patient twice if 22 they had two different types of pain. So I 23 followed the same methodology that I've 24 employed in the course of my consulting 25 career for medical device pharmaceutical</p>

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<p style="text-align: right;">Page 226</p> <p>1 companies.</p> <p>2 Q. Let me just close the loop on this</p> <p>3 just to be sure I have it in my head. Let</p> <p>4 me pick another column here. Let's say</p> <p>5 bleeding. In order to reach this</p> <p>6 39.8 percent in the last column, what you're</p> <p>7 saying, as I understand it, that is the</p> <p>8 total percent of reports attributed to TVT</p> <p>9 and TVT-O out of all SUI reports from 2008</p> <p>10 to 2010?</p> <p>11 A. According to FDA's number of the</p> <p>12 number of patients that -- the number of MDR</p> <p>13 reports, I should say, which should be</p> <p>14 individual patients, had bleeding. There</p> <p>15 were 103.</p> <p>16 Q. Right. And let me stop you there</p> <p>17 because, as I understand it, you did not do</p> <p>18 the same search that FDA did to come up and</p> <p>19 verify that you also would find 103 reports?</p> <p>20 MR. GOSS: Objection. Form.</p> <p>21 THE WITNESS: Yes. I did not</p> <p>22 look at all the other manufacturers.</p> <p>23 That's correct.</p> <p>24 BY MS. SUTHERLAND:</p> <p>25 Q. Okay. So you're assuming in order</p>	<p style="text-align: right;">Page 228</p> <p>1 documents that you've seen, and you claimed</p> <p>2 it's a lot, from that number of documents</p> <p>3 you've reviewed, has FDA ever said that the</p> <p>4 IFU for the TVT-O up to the time of implant</p> <p>5 was inadequate?</p> <p>6 A. You know, the way I'm going to</p> <p>7 answer that is I have not seen -- while I</p> <p>8 have not seen any specific communications</p> <p>9 directed to Ethicon, the 2008 public health</p> <p>10 notification includes information that --</p> <p>11 and recommendations that indicate what a</p> <p>12 manufacturer should do and recommendations</p> <p>13 for what physicians need to know.</p> <p>14 Q. Where are the recommendations that</p> <p>15 the FDA said a manufacturer ought to do with</p> <p>16 respect to its IFU in the 2008 PHN?</p> <p>17 A. The IFU is a communication, as</p> <p>18 we've discussed before, the primary</p> <p>19 communication between the manufacturer.</p> <p>20 Q. Now, I want you to answer my</p> <p>21 question.</p> <p>22 A. I am. But it has a basis, and the</p> <p>23 basis is that it is the manufacturer's</p> <p>24 communication with the physician, and these</p> <p>25 recommendations say that the physician</p>
<p style="text-align: right;">Page 227</p> <p>1 to reach this 39.8 percent that your number</p> <p>2 of 41 reports comes out of this number, 103</p> <p>3 reports?</p> <p>4 MR. GOSS: Objection. Form.</p> <p>5 THE WITNESS: Based on the</p> <p>6 number of bleeding reports that FDA</p> <p>7 reported, we took a percentage of that</p> <p>8 to arrive at what percentage of that</p> <p>9 number was TVT and TVT-O.</p> <p>10 BY MS. SUTHERLAND:</p> <p>11 Q. Okay. I'm going to change gears.</p> <p>12 A. Okay.</p> <p>13 Q. And get back on my outline.</p> <p>14 Has the FDA ever said that the</p> <p>15 TVT-O IFU up to the time of implant in this</p> <p>16 case was inadequate?</p> <p>17 MR. GOSS: Objection. Form.</p> <p>18 THE WITNESS: I'm not -- there</p> <p>19 may be internal communication to which</p> <p>20 I've not seen, but based on what I've</p> <p>21 seen, the answer to that is, no.</p> <p>22 BY MS. SUTHERLAND:</p> <p>23 Q. All right. Let me ask it cleanly.</p> <p>24 As far as documents that you have seen --</p> <p>25 and we've talked about the number of</p>	<p style="text-align: right;">Page 229</p> <p>1 should be vigilant for potential adverse</p> <p>2 events, especially erosion and infection,</p> <p>3 watch for complications associated with the</p> <p>4 tools, inform patients that implantation of</p> <p>5 surgical mesh is permanent, that some</p> <p>6 complications associated with the implanted</p> <p>7 mesh may require additional surgery that may</p> <p>8 or may not correct the complication, inform</p> <p>9 patients about the potential for serious</p> <p>10 complications and their affect on quality of</p> <p>11 life, including pain during sexual</p> <p>12 intercourse, scarring and narrowing of the</p> <p>13 vaginal wall, noted there in POP repair, and</p> <p>14 provide patients with a copy of the patient</p> <p>15 labeling from the surgical mesh</p> <p>16 manufacturer.</p> <p>17 There is testimony by Ethicon, and</p> <p>18 if I recall correctly as I sit here today,</p> <p>19 specifically from Dr. Hinoul testifying that</p> <p>20 all of the information in the 2008 public</p> <p>21 health notification was included in the TVT</p> <p>22 and TVT-O IFU, and it was not.</p> <p>23 But that information -- and I think</p> <p>24 it maybe even -- that publicly, if I'm</p> <p>25 recalling correctly as I sit here today -- I</p>

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<p style="text-align: right;">Page 230</p> <p>1 can actually verify that.</p> <p>2 Q. I've got to say you're not</p> <p>3 answering my question.</p> <p>4 A. Oh, I am answering your question</p> <p>5 because the fact that physicians should do</p> <p>6 these things, it's up to the manufacturer to</p> <p>7 communicate this information to the</p> <p>8 physicians through the IFU.</p> <p>9 So while this is a public health</p> <p>10 notification, and the FDA is telling the</p> <p>11 physicians what the manufacturer should have</p> <p>12 told the physicians.</p> <p>13 Q. Is there a document where the FDA</p> <p>14 ever told Ethicon your TVT-O IFU is</p> <p>15 inadequate up to the date of implant?</p> <p>16 MR. GOSS: Objection. Form.</p> <p>17 THE WITNESS: I believe I've</p> <p>18 answered that.</p> <p>19 BY MS. SUTHERLAND:</p> <p>20 Q. You're pointing to the PHN?</p> <p>21 A. I'm pointing to the PHN.</p> <p>22 Q. Is there anything besides the PHN</p> <p>23 that you can point me to where you're saying</p> <p>24 FDA told Ethicon the TVT-O IFU is</p> <p>25 inadequate?</p>	<p style="text-align: right;">Page 232</p> <p>1 included.</p> <p>2 Q. Move to strike everything after</p> <p>3 "no."</p> <p>4 Is the TVT-O mentioned anywhere in</p> <p>5 the 2008 PHN by name?</p> <p>6 A. Not by name.</p> <p>7 Q. All right. Has FDA ever issued a</p> <p>8 warning letter to Ethicon about the TVT-O?</p> <p>9 A. No, not that I -- not that I've</p> <p>10 seen, and I have looked, yes.</p> <p>11 Q. I bet you looked.</p> <p>12 We're at 30 minutes. Do you want</p> <p>13 to go off and check?</p> <p>14 A. Yes, please. Thank you.</p> <p>15 THE VIDEOGRAPHER: With the</p> <p>16 approval of counsel, going off the</p> <p>17 record. The time is approximately 3:00</p> <p>18 p.m.</p> <p>19 (Recess taken from</p> <p>20 3:00 p.m. to 3:09 p.m.)</p> <p>21 THE VIDEOGRAPHER: With the</p> <p>22 approval of counsel, back on the record.</p> <p>23 The time is approximately 3:09 p.m.</p> <p>24 BY MS. SUTHERLAND:</p> <p>25 Q. Dr. Pence, have you ever seen a</p>
<p style="text-align: right;">Page 231</p> <p>1 A. If you read the 2008 public health</p> <p>2 communication and you compare --</p> <p>3 Q. I said other than --</p> <p>4 A. I know, but if you compare that --</p> <p>5 I can't tell you about a specific document</p> <p>6 from FDA to Ethicon, but if you compare</p> <p>7 what's supposed to be notified to physicians</p> <p>8 and the IFU, they're vastly different.</p> <p>9 Q. All right. Is the word or the</p> <p>10 letters "IFU" anywhere in the 2008 PHN?</p> <p>11 MR. GOSS: Take your time and</p> <p>12 review it.</p> <p>13 MS. SUTHERLAND: And it's a</p> <p>14 page and a half.</p> <p>15 MR. GOSS: We can take</p> <p>16 30 minutes.</p> <p>17 BY MS. SUTHERLAND:</p> <p>18 Q. That's a yes or no.</p> <p>19 A. There is no mention of the IFU</p> <p>20 specifically in this document.</p> <p>21 Q. All right. Is the word "Ethicon"</p> <p>22 anywhere in this document, the 2008 PHN?</p> <p>23 A. No, but it addresses reports from</p> <p>24 nine surgical mesh manufacturers which were</p> <p>25 the basis for this, and so Ethicon was</p>	<p style="text-align: right;">Page 233</p> <p>1 document where FDA determined that the TVT-O</p> <p>2 device was misbranded?</p> <p>3 MR. GOSS: Objection. Form.</p> <p>4 THE WITNESS: No.</p> <p>5 BY MS. SUTHERLAND:</p> <p>6 Q. All right. In fact, as far as you</p> <p>7 know, FDA has never determined TVT-O to be</p> <p>8 misbranded; correct?</p> <p>9 MR. GOSS: Objection. Form.</p> <p>10 THE WITNESS: I've never seen</p> <p>11 any documentation stating that.</p> <p>12 BY MS. SUTHERLAND:</p> <p>13 Q. Stating that it is misbranded?</p> <p>14 A. Correct.</p> <p>15 Q. All right. Have you ever seen any</p> <p>16 documentation from FDA stating that TVT-O is</p> <p>17 adulterated?</p> <p>18 MR. GOSS: Objection. Form.</p> <p>19 THE WITNESS: No, I have not.</p> <p>20 BY MS. SUTHERLAND:</p> <p>21 Q. All right. Has FDA ever requested</p> <p>22 the TVT-O to be withdrawn from the market?</p> <p>23 MR. GOSS: Objection. Form.</p> <p>24 THE WITNESS: No.</p> <p>25 BY MS. SUTHERLAND:</p>



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<p style="text-align: right;">Page 234</p> <p>1 Q. Has FDA ever recalled the TVT-O?</p> <p>2 A. Not to my knowledge, as I sit here</p> <p>3 today.</p> <p>4 Q. All right. Have you ever spoken --</p> <p>5 have you ever spoken with a woman who had</p> <p>6 the TVT-O implanted in her?</p> <p>7 MR. GOSS: Objection. Form.</p> <p>8 Foundation.</p> <p>9 THE WITNESS: Yes.</p> <p>10 BY MS. SUTHERLAND:</p> <p>11 Q. Would that be a plaintiff?</p> <p>12 A. Yes.</p> <p>13 Q. All right. Which plaintiff?</p> <p>14 A. That would have been Ms. Batiste.</p> <p>15 Q. Okay. You haven't talked to</p> <p>16 Ms. Ramirez?</p> <p>17 A. No, I have not.</p> <p>18 Q. All right. Have you ever done any</p> <p>19 kind of survey to determine what women</p> <p>20 perceived from the patient brochure for the</p> <p>21 TVT-O?</p> <p>22 A. No. I have not done such a survey.</p> <p>23 And just to clarify, Ms. Batiste, I spoke to</p> <p>24 her in the context of being courteous when I</p> <p>25 was at trial, but I didn't discuss any</p>	<p style="text-align: right;">Page 236</p> <p>1 510(k); right?</p> <p>2 A. It was. My recollection also is,</p> <p>3 though, that Ethicon had brochures for the</p> <p>4 TVT family of product at the time of that</p> <p>5 submission, and, to the best of my</p> <p>6 recollection as I sit here today, and I can</p> <p>7 look it up, did not include the patient</p> <p>8 labeling in the 510(k), and what is intended</p> <p>9 to be included in a 510(k) would also</p> <p>10 include patient labeling if a company is</p> <p>11 going to be using it. Let me just take a</p> <p>12 moment here to check something.</p> <p>13 Yes, as stated on page 92 of my</p> <p>14 report, the patient brochure was not</p> <p>15 included for FDA's review in the proposed</p> <p>16 labeling section of the 510(k) pre-market</p> <p>17 notification for the TVT-O, although a</p> <p>18 patient brochure had been available since</p> <p>19 2001 for the TVT system, and noting also</p> <p>20 that the information that is intended to be</p> <p>21 used required in a pre-market notification,</p> <p>22 submission includes proposed labeling and</p> <p>23 advertisement sufficient to describe the</p> <p>24 device's intended use and its directions for</p> <p>25 its use -- and the directions for its use.</p>
<p style="text-align: right;">Page 235</p> <p>1 specifics obviously with her.</p> <p>2 Q. Yeah.</p> <p>3 For the Class 2 device TVT-O, is</p> <p>4 there a requirement that Ethicon have a</p> <p>5 patient brochure?</p> <p>6 A. There isn't a requirement unless</p> <p>7 the FDA requests it.</p> <p>8 Q. Okay. Did the FDA request one for</p> <p>9 the TVT-O?</p> <p>10 A. Do you have the 510(k)? I'd have</p> <p>11 to go back --</p> <p>12 Q. I don't have the 510(k).</p> <p>13 A. -- and look. They did -- they</p> <p>14 had --</p> <p>15 MR. GOSS: I can probably let</p> <p>16 you see one.</p> <p>17 MS. SUTHERLAND: I don't want</p> <p>18 to take the time.</p> <p>19 Do you recall, as you sit here</p> <p>20 today, whether or not FDA requested a</p> <p>21 patient brochure for TVT-O?</p> <p>22 THE WITNESS: My recollection</p> <p>23 is they did not.</p> <p>24 BY MS. SUTHERLAND:</p> <p>25 Q. Yeah, because it was a special</p>	<p style="text-align: right;">Page 237</p> <p>1 Q. Now, at the time of the submission</p> <p>2 of the TVT-O 510(k), was there in existence</p> <p>3 a TVT-O brochure?</p> <p>4 A. The --</p> <p>5 MR. GOSS: Objection. Form.</p> <p>6 THE WITNESS: There was -- if</p> <p>7 you look at my report on page 92, in the</p> <p>8 documents that were available for my</p> <p>9 review, there were 16 patient brochures</p> <p>10 final copy relevant to the TVT-O product</p> <p>11 with the following dates, and one of</p> <p>12 those was dated 2004.</p> <p>13 The submission went in in 2003,</p> <p>14 the 510(k) submission went in in 2003,</p> <p>15 but as I noted, many of these are the</p> <p>16 TVT family of products and contain very</p> <p>17 similar information, and my opinion</p> <p>18 would be that they certainly could have</p> <p>19 included one in the 510(k) submission.</p> <p>20 They had TVT ones since 2001 at least.</p> <p>21 BY MS. SUTHERLAND:</p> <p>22 Q. Let me get an answer to my</p> <p>23 question, though, because I think my</p> <p>24 question was, was there in existence at the</p> <p>25 time of the submission of the TVT-O 510(k) a</p>

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<p style="text-align: right;">Page 238</p> <p>1 TVT-O brochure? That answer is no, isn't 2 it? 3 A. The ones that were made available 4 to me began in 2004, which was the same time 5 period they marketed the product. 6 Q. All right. I'm still not hearing 7 an answer to my question. Was there in 8 existence at the time of the submission of 9 the TVT-O 510(k) a TVT-O brochure? 10 A. Not one specific to the TVT-O, but 11 there were TVT ones, and as I noted, many of 12 these brochures are not specific to TVT or 13 TVT-O. They are for the TVT family of 14 products. 15 Q. I'm going to move to strike 16 everything after "Not one specific to the 17 TVT-O." 18 For those brochures that you're 19 talking about that were for the TVT family 20 of products, they didn't include TVT-O until 21 after TVT-O was cleared by FDA, now, did 22 they? 23 MR. GOSS: Objection. Form. 24 THE WITNESS: No, but they 25 could just as the IFU for TVT-O was</p>	<p style="text-align: right;">Page 240</p> <p>1 includes proposed labels, labeling and 2 advertisement sufficient to describe the 3 device, its intended use and directions 4 for its use. 5 So if -- since Ethicon 6 obviously intended to include patient 7 labeling and make that available, it 8 would have been appropriate for them to 9 include patient labeling in their 510(k) 10 submission. 11 BY MS. SUTHERLAND: 12 Q. Now, did you see documents that 13 reference an intent by Ethicon to have a 14 patient brochure for TVT-O before clearance 15 of TVT-O? 16 MR. GOSS: Objection. Form. 17 THE WITNESS: I don't -- I 18 don't recall specifically, as I sit here 19 today, except to say that they had had 20 TVT patient labeling in existence since 21 2001. 22 BY MS. SUTHERLAND: 23 Q. Okay. Do you intend to offer an 24 opinion as to a safer alternative design for 25 the TVT-O?</p>
<p style="text-align: right;">Page 239</p> <p>1 included in the 510(k), because there 2 were brochures that were existing for 3 TVT since very shortly thereafter and 4 for launch, there was a -- there was one 5 that included TVT-O to comply with 6 the -- what should be included in the 7 510(k), Ethicon could readily have used 8 what it had and made any additions for 9 TVT-O and submitted it in the 510(k) but 10 did not. 11 BY MS. SUTHERLAND: 12 Q. I want to move to strike everything 13 after "no." 14 Based on what was in existence with 15 respect to a TVT-O brochure, are you opining 16 that Ethicon breached some standard or 17 regulation by not creating a TVT-O brochure 18 to include with its 510(k) submission? 19 MR. GOSS: Objection. Form. 20 THE WITNESS: Well, as I note 21 in the information and referencing the 22 guidance on medical device patient 23 labeling, which was a 2001 guidance, the 24 information that's required in a 25 pre-market notification submission</p>	<p style="text-align: right;">Page 241</p> <p>1 A. If asked, I would offer that 2 opinion. 3 Q. I mean, do you have that in your 4 report? 5 A. I talk about mesh fraying, and I 6 talk about the laser-cut mesh versus the 7 mechanically cut mesh and various issues 8 with the mechanically cut mesh. 9 Q. Would it be your opinion that 10 laser-cut mesh is safer than mechanically 11 cut mesh? 12 A. The testing wasn't done on the 13 laser -- they both have issues. They both 14 have different issues, and the testing was 15 never done to -- clinically to determine 16 head to head how they compare. 17 Q. So do you intend to after an 18 opinion that laser-cut mesh is safer than 19 mechanically cut mesh in this trial? 20 MR. GOSS: Objection. Form. 21 THE WITNESS: No. I'm saying 22 that there were issues with mechanically 23 cut mesh. There were also issues with 24 the laser-cut mesh, and the testing was 25 never done to assess whether or not,</p>

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<p style="text-align: right;">Page 242</p> <p>1 with either one, the implications of the  2 issues -- with both what the  3 implications were for the patient.  4 BY MS. SUTHERLAND:  5 Q. Move to strike everything after  6 "no."  7 Are you aware -- let me ask it this  8 way: In 2010 at the time of implant, was  9 there available a mesh sling that, in your  10 opinion, was safer than the TVT-O?  11 MR. GOSS: Objection. Form.  12 Foundation.  13 THE WITNESS: Based on -- there  14 were meshes available --  15 BY MS. SUTHERLAND:  16 Q. Answer my question now.  17 A. -- that were considered safer than  18 the heavy weight mesh that is in the TVT-O,  19 and Ethicon had such meshes.  20 Q. I'm going to move to strike.  21 Would you read back my question,  22 please?  23 (Record read by the  24 reporter as follows:  25 Let me ask it this way: In 2010 at the time of  implant, was there available a mesh sling that, in</p>	<p style="text-align: right;">Page 244</p> <p>1 literature using those meshes in the  2 surgical treatment of stress urinary  3 incontinence?  4 A. Those particular meshes?  5 Q. Correct.  6 A. Not that I've seen at this point  7 today for Ethicon.  8 Q. Because there's not any.  9 A. I know.  10 Q. Right?  11 A. That's correct.  12 Q. All right.  13 A. Because they didn't develop it for  14 SUI. They didn't take it to that step where  15 they had meshes that could have -- they  16 believed could have been safer but never  17 developed the sling with such meshes.  18 Q. I'm going to move to strike.  19 Let's change gears and talk about  20 adverse events. If you'll flip to page 125  21 of your report, are you with me?  22 A. Yes.  23 Q. Okay. Now, in reading your report,  24 as I understand it, you have -- I'm going to  25 talk about these in different buckets.</p>
<p style="text-align: right;">Page 243</p> <p>1 your opinion, was safer than the TVT-O?")  2 THE WITNESS: I've not done an  3 evaluation of all mesh slings that were  4 available; so I can't -- I can't answer  5 that question.  6 BY MS. SUTHERLAND:  7 Q. Okay. So you aren't intending to  8 offer an opinion that there was some mesh  9 sling that was available in 2010 that was  10 safer than TVT-O; correct?  11 MR. GOSS: Objection. Form.  12 THE WITNESS: As you've asked  13 the question, that is correct. If  14 asked, I will opine that there were  15 meshes available by Ethicon's own  16 documentation and testimony that  17 would -- that they believed would be  18 safer than the heavy weight mesh used in  19 TVT-O.  20 BY MS. SUTHERLAND:  21 Q. And are you talking about Ultrapro?  22 A. BiPro, there are other meshes that  23 were available that were lighter weight in  24 2004.  25 Q. Now, have you seen any medical</p>	<p style="text-align: right;">Page 245</p> <p>1 A. Okay.  2 Q. So in my first bucket, I'm going to  3 talk about the reports that you're claiming  4 were reportable but were not given to FDA.  5 Okay?  6 A. Yes. These are examples.  7 Q. Examples. Now, you list 29  8 examples; correct?  9 A. Yes.  10 Q. And that is somewhere in your  11 report, and then the full section of the 29  12 is in Exhibit 4 to your report; correct?  13 A. Yes.  14 Q. All right. The first thing I want  15 to ask you is: Are you intending to specify  16 any other issue reports other than the 29  17 that you specifically delineated that should  18 have been reported to FDA but were not?  19 A. As I sit here today --  20 MR. GOSS: I'm sorry I didn't  21 hear the last part of that. Would you  22 ask that again?  23 MS. SUTHERLAND: I don't know  24 if I can ask it the same way.  25 MR. GOSS: Can you read it</p>

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<p style="text-align: right;">Page 246</p> <p>1 back?</p> <p>2 (Record read by the</p> <p>3 reporter as follows:</p> <p>4 The first thing I want to ask you is are you</p> <p>5 intending to specify any other issue reports other</p> <p>6 than the 29 that you specifically delineated that</p> <p>7 should have been reported to FDA but were not?")</p> <p>8 THE WITNESS: As I sit here</p> <p>9 today, no.</p> <p>10 BY MS. SUTHERLAND:</p> <p>11 Q. Okay.</p> <p>12 A. If there are some that are</p> <p>13 presented to me, and I'm asked about them, I</p> <p>14 would opine about them.</p> <p>15 Q. Tell me how you found those 29.</p> <p>16 What was your methodology to pull out those</p> <p>17 29?</p> <p>18 A. If you look at page -- at the</p> <p>19 bottom of page 124, I note that an issue</p> <p>20 report -- what an issue report is and that</p> <p>21 there were 862 TVT issue reports from 1999</p> <p>22 to 2012 and 901 TVT-O issue reports from</p> <p>23 2004 to 2012 that I received and reviewed</p> <p>24 for the preparation of my TVT and TVT-O</p> <p>25 reports.</p> <p>And I was able by matching up</p>	<p style="text-align: right;">Page 248</p> <p>1 don't have a specific number that I'm going</p> <p>2 to say should have been reported but were</p> <p>3 not reported but that there were a number</p> <p>4 that were not reported that should have been</p> <p>5 reported.</p> <p>6 And because of the importance of</p> <p>7 reporting so that, for example, the 2008</p> <p>8 public health notification, if companies are</p> <p>9 not fulfilling their responsibilities for</p> <p>10 reporting MDRs according to the requirements</p> <p>11 for reporting, then that information doesn't</p> <p>12 populate the database, and FDA doesn't</p> <p>13 become aware, nor do other people who may</p> <p>14 be, like physicians, who -- we talked about</p> <p>15 different sources of information -- who may</p> <p>16 access the MDR database or patients to</p> <p>17 see -- because it is a publicly available</p> <p>18 database to see what information exists.</p> <p>19 That information is not there.</p> <p>20 So it's not a true picture, and we</p> <p>21 talk about there's a lot of underreporting,</p> <p>22 and this is one of the reasons there's</p> <p>23 underreporting. There are other reasons for</p> <p>24 underreporting to the MAUDE database as</p> <p>25 well, but FDA, if they get the information</p>
<p style="text-align: right;">Page 247</p> <p>1 the -- what was in the MAUDE database to the</p> <p>2 issue reports, I was able to determine that</p> <p>3 Ethicon submitted 70 percent as MDR reports</p> <p>4 to FDA for TVT, and I determined then that</p> <p>5 29.9 percent or 258 were determined to be</p> <p>6 not reportable by Ethicon. And then one was</p> <p>7 undetermined.</p> <p>8 For TVT-O, 444 or 49.3 percent were</p> <p>9 submitted as MDR reports to FDA and 457 or</p> <p>10 just over 50 percent, 50.7 percent, were</p> <p>11 determined by Ethicon to be not reportable.</p> <p>12 So I reviewed the issue reports</p> <p>13 that Ethicon determined to be not</p> <p>14 reportable, and they showed that -- my</p> <p>15 review showed that a number of them met the</p> <p>16 requirements for MDR reporting and should</p> <p>17 have been submitted to FDA, in my opinion.</p> <p>18 And I took examples of those that Ethicon</p> <p>19 determined were not reportable and included</p> <p>20 those in my report.</p> <p>21 Q. All right. Now, are you intending</p> <p>22 to offer an opinion that some number more</p> <p>23 than 29 should have been reported to FDA?</p> <p>24 A. I don't have a specific number, if</p> <p>25 I understand your question correctly. I</p>	<p style="text-align: right;">Page 249</p> <p>1 sooner, then that 2008 public health</p> <p>2 notification may have come out sooner than</p> <p>3 it did if all manufacturers were fulfilling</p> <p>4 their responsibilities for reporting.</p> <p>5 Q. All right. I'm going to move to</p> <p>6 strike everything after your first sentence</p> <p>7 where, I think, you said you were going to</p> <p>8 say a number had not been reported to FDA.</p> <p>9 My question is: Are you going to</p> <p>10 offer an opinion that more than 29 issue</p> <p>11 reports should have been reported to FDA?</p> <p>12 A. I might offer that opinion.</p> <p>13 Q. And what is that opinion based on?</p> <p>14 I mean, do you have those?</p> <p>15 A. Yes.</p> <p>16 Q. Do you have those issue reports</p> <p>17 other than the 29 that you can tell me that</p> <p>18 you say ought to be -- ought to have been</p> <p>19 reported?</p> <p>20 A. I can't tell you, as I sit here</p> <p>21 today. I have them available if I -- there</p> <p>22 are others if I wanted -- these are not the</p> <p>23 only 29. There are others.</p> <p>24 Q. Okay. Where are those others? You</p> <p>25 say you have them available. I want to see</p>

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<p style="text-align: right;">Page 250</p> <p>1 them.</p> <p>2 A. In my records.</p> <p>3 Q. Did you create an Excel workbook on</p> <p>4 your MAUDE database review?</p> <p>5 A. Well, this is separate. These are</p> <p>6 issue reports.</p> <p>7 Q. Then I'll ask that separately.</p> <p>8 Where -- so if I want to -- I mean,</p> <p>9 I'm entitled to know, you know, what your</p> <p>10 opinions are, and I've got your 29 issue</p> <p>11 reports that you say were not appropriately</p> <p>12 reported to FDA.</p> <p>13 If you're going to say some number</p> <p>14 more than that 29 should have been reported</p> <p>15 to FDA, I need you to tell me, number one,</p> <p>16 what that number is, and number two, which</p> <p>17 specific issue reports those are.</p> <p>18 A. I understand what you're asking. I</p> <p>19 think where our disconnect may be, you asked</p> <p>20 if I was going to say more than 29 should</p> <p>21 have been reported. I don't intend, as I</p> <p>22 sit here today, unless asked by counsel, to</p> <p>23 tally the total number.</p> <p>24 I don't anticipate being asked how</p> <p>25 many should be reported -- should have been</p>	<p style="text-align: right;">Page 252</p> <p>1 A. Yes. And if I'm asked -- if that's</p> <p>2 going to be asked --</p> <p>3 MR. GOSS: I'm sure she'll ask</p> <p>4 me.</p> <p>5 THE WITNESS: I can certainly</p> <p>6 do that.</p> <p>7 BY MS. SUTHERLAND:</p> <p>8 Q. I've got a letter drafted in my</p> <p>9 head already.</p> <p>10 Okay. Now, those 29 examples that</p> <p>11 you pulled out are all on TVT; correct?</p> <p>12 A. Yes.</p> <p>13 Q. All right. Did you perform a</p> <p>14 review of the issue reports for TVT-O that</p> <p>15 were not submitted to FDA?</p> <p>16 A. Yes, I did. I don't recall, as I</p> <p>17 sit here today, if I went through all of the</p> <p>18 457 that Ethicon determined to be not</p> <p>19 reportable, but I certainly went through a</p> <p>20 number of them.</p> <p>21 Q. Okay. Are you going to offer any</p> <p>22 opinion that any of the TVT-O issue reports</p> <p>23 were not appropriately submitted to FDA?</p> <p>24 A. If asked, if asked that, yes. I</p> <p>25 might not give a specific number, but I</p>
<p style="text-align: right;">Page 251</p> <p>1 reported that were not of the issue reports,</p> <p>2 but if there were more than 29, these are</p> <p>3 examples.</p> <p>4 So as I understood your question,</p> <p>5 you said are you going to say there were</p> <p>6 more than 29, and I could say there were</p> <p>7 more than 29 without giving an actual</p> <p>8 number. There were also the malfunctions.</p> <p>9 Q. Well, and I'll get to malfunctions.</p> <p>10 But if you have an opinion that more than 29</p> <p>11 issue reports ought to have been reported to</p> <p>12 FDA, and as I understand your testimony, you</p> <p>13 know which issue reports those are --</p> <p>14 A. I would have to go --</p> <p>15 Q. -- I would ask counsel that he let</p> <p>16 me know which ones they are so that we</p> <p>17 aren't ambushed at trial. I'm entitled to</p> <p>18 know --</p> <p>19 A. I understand.</p> <p>20 Q. -- which issue reports you think</p> <p>21 should have been reported.</p> <p>22 MR. GOSS: Is there a question</p> <p>23 in there somewhere?</p> <p>24 BY MS. SUTHERLAND:</p> <p>25 Q. Does that sound fair?</p>	<p style="text-align: right;">Page 253</p> <p>1 would say, yes, if asked that, I would</p> <p>2 respond that there were reports that were</p> <p>3 not appropriately reported.</p> <p>4 And the idea here is not so much a</p> <p>5 specific number, but the real underlying</p> <p>6 point is that Ethicon was down playing the</p> <p>7 adverse events that occurred using</p> <p>8 rationales for not reporting that were</p> <p>9 inappropriate, and as a result, not</p> <p>10 fulfilling its obligations that is required,</p> <p>11 both by FDA regulations and the global</p> <p>12 standard of care.</p> <p>13 And as a result of that, then that</p> <p>14 compromises the ability of the FDA and</p> <p>15 others to see what the true safety profile,</p> <p>16 and it -- true safety profile of these</p> <p>17 products are -- or is. And the other aspect</p> <p>18 of that is this all goes to the central</p> <p>19 principles of safety and performance.</p> <p>20 Q. You've gone way past my question</p> <p>21 now.</p> <p>22 A. But it's all relevant. It's all</p> <p>23 relevant.</p> <p>24 MS. SUTHERLAND: Would you read</p> <p>25 my question back, please?</p>



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<p style="text-align: right;">Page 254</p> <p>1 (Record read by the 2 reporter as follows: 3 Are you going to offer any opinion that any of the 4 TVT-O issue reports were not appropriately 5 submitted to FDA?") 6 BY MS. SUTHERLAND: 7 Q. All right. And I think you told me 8 yes, you are. 9 A. If asked. 10 Q. Now, which issue reports for TVT-O 11 were not appropriately reported to FDA? 12 A. I don't have them with me today. 13 Q. Do you have that somewhere? 14 A. Yes. 15 Q. All right. And I'm going to ask 16 counsel to get me those. 17 Do you know what number you're 18 going to say -- or strike that. 19 Do you know what number you found 20 of the TVT issue reports were not 21 appropriately reported to FDA? 22 A. I don't recall the number, as I sit 23 here today. 24 Q. All right. Do you know what the 25 reports were in those issue reports that</p>	<p style="text-align: right;">Page 256</p> <p>1 had not been appropriately reported to FDA 2 for TVT-O? 3 A. Yes. 4 Q. Did they report to FDA some reports 5 of leg pain? 6 A. To the best of my recollection -- I 7 would have to look back. Yes. 8 Neuromuscular problems. I'd have to look 9 back at exactly what the reports were. 10 Q. Okay. Now, how many -- 11 A. Oh, I can do that actually. 12 Q. You answered my question. 13 A. There's difficulty walking. It's 14 in my Exhibit 1. 15 Q. How many reports of leg pain for 16 TVT-O were not appropriately reported to 17 FDA, in your opinion, from what you 18 reviewed? 19 A. I can't give you a number, as I sit 20 here today, and I also only received a 21 certain number of issue reports. It's my 22 understanding, drawing from the recesses of 23 my memory from having done this a year or 24 two ago, I didn't receive all issue reports. 25 The issue reports I received I went through,</p>
<p style="text-align: right;">Page 255</p> <p>1 you're saying were not appropriately 2 reported to FDA, meaning erosion, extrusion, 3 pain? 4 A. There were a variety of different 5 adverse events. 6 Q. All right. What were they? 7 A. Difficulty walking, pain, urinary 8 issues, for example. 9 Q. Okay. Now, did you look at what 10 was reported to FDA with respect to TVT-O's 11 issue reports? 12 A. Yes. 13 Q. All right. Did they report reports 14 of pain to FDA? 15 A. Yes, and we know that because we 16 just went through the tabular presentation. 17 Q. You answered. You said yes. 18 Did they report reports of urinary 19 dysfunction to FDA? 20 A. Yes, but that's not the issue 21 whether they reported some. It's whether or 22 not they reported all that should have been 23 reported. 24 Q. Did they report -- I think you said 25 that there was some reports of leg pain that</p>	<p style="text-align: right;">Page 257</p> <p>1 and I've given you the numbers of those 2 which were reported as MDRs, which were not, 3 and I can't tell you exactly, as I sit here 4 today, how many should have been reported 5 but that were not of the issue reports that 6 I was given to review and had access to. 7 Q. And as I understand it, you also 8 listed ten malfunctions as examples of issue 9 reports that were not reported to FDA and 10 should have been? 11 A. Yes. 12 Q. All right. Now, that's all for 13 TVT; correct? 14 A. Yes. 15 Q. Do you have a number that you 16 determined over ten that should have been 17 reported to FDA? 18 A. I don't recall the specific number. 19 Again, these are examples. 20 Q. Yeah. My question is: Do you have 21 more than ten that you found that you 22 thought should have been reported to FDA? 23 A. I would have to go back and tally 24 the number. 25 Q. Okay. Did you look for</p>



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<p style="text-align: right;">Page 258</p> <p>1 malfunctions in TVT-O issue reports and  2 determine that any should have been reported  3 to FDA but were not?  4 A. To the best of my recollection as I  5 sit here today, yes.  6 Q. And how many?  7 A. I can't give you a number without  8 going back and checking.  9 Q. And do you know what type of  10 malfunction?  11 A. I don't recall specifically, as I  12 sit here today.  13 Q. Okay. But you have all of that  14 information somewhere back at your office,  15 if I'm correct?  16 A. Yes.  17 Q. Okay. Now, you also listed some  18 late reports that -- meaning Ethicon got  19 them and waited longer than 30 days to  20 report them to FDA?  21 A. Yes.  22 Q. Now, as I understand it -- well,  23 let's look on page 124. What you found  24 specific to TVT-O were 36 late reports; is  25 that right?</p>	<p style="text-align: right;">Page 260</p> <p>1 all, did FDA take any compliance action  2 against Ethicon for these 36 reports that  3 were late anywhere from 1 to 19 days?  4 A. No. But I have seen, to answer  5 where I think you're going with your  6 question, FDA does --  7 Q. I think you answered my question.  8 A. -- does note in warning letters if  9 something has not been reported or in a 483  10 report, but also to your question you asked  11 me about compliance, and FDA did issue a 483  12 related to compliance.  13 Q. That was a 483 observation in 2005;  14 right?  15 A. Uh-huh.  16 Q. And then that was responded to by  17 Ethicon; correct?  18 A. To the best of my recollection,  19 yes. If not, that would be an issue.  20 Q. And no further action was taken by  21 FDA, was it?  22 A. To the best of my knowledge, that's  23 correct.  24 Q. All right. And no -- certainly no  25 compliance action was taken as a result of</p>
<p style="text-align: right;">Page 259</p> <p>1 A. Yes.  2 Q. All right. And as I understand it,  3 they were late from 1 day to 19 days; is  4 that right?  5 A. Yes.  6 Q. All right. Now, are you saying  7 that that delay of 36 reports from 1 day to  8 19 days is of some sort of significance?  9 A. Yes. It's out of regulatory  10 compliance.  11 Q. Is it --  12 A. It's a violation of the  13 regulations.  14 Q. Is it of significance in the  15 evaluation of the risk of TVT-O?  16 A. For that time frame, I would think  17 that particular time frame didn't make a  18 difference in terms of FDA's evaluation.  19 Q. I wouldn't think so either.  20 A. However, the requirements are set  21 for a reason, and they are supposed to be  22 followed, and it is a violation of their  23 requirements, FDA requirements, not to  24 submit within 30 days.  25 Q. Have you seen FDA -- well, first of</p>	<p style="text-align: right;">Page 261</p> <p>1 that 483 observation; right?  2 A. Yes, but understanding that when  3 FDA performs an inspection, it's based on  4 something very limited, and FDA has not had  5 access to all of the information that I have  6 had access to.  7 Q. Move to strike everything after  8 "yes."  9 All right. The issue reports that  10 were reviewed for TVT and TVT-O, did you  11 actually review them?  12 A. Yes.  13 Q. Did you have help reviewing them?  14 A. Yes, I did.  15 Q. And who was that?  16 A. It would have been several  17 different people over time.  18 Q. Who all?  19 A. Dr. Miriam Erberich would have been  20 one of them, potentially Dr. Kathryn Kimmel,  21 Wren Cherney, Andrea Friedman.  22 To the best of my recollection as I  23 sit here today, those would be the staff who  24 would have assisted me with looking at  25 those. But any that I determined, any that</p>

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<p style="text-align: right;">Page 262</p> <p>1 were determined and that I've discussed as  2 being they should have been reported but  3 were not, that was all my evaluation.  4 Q. Okay. So we know for the 29 that  5 are listed, you reviewed those.  6 A. Yes.  7 Q. And we know for the 10 malfunctions  8 that were listed, you reviewed those.  9 A. Absolutely.  10 Q. And if I'm understanding your  11 testimony, you reviewed others that you're  12 not able to tell me about today that you  13 claim should have been reported to FDA.  14 A. Yes. I just can't recall the  15 specifics of those, and where people would  16 have helped me would have been to, for  17 example, to determine which ones were  18 actually reported to FDA of the issue  19 reports because we had to match that  20 information up with the MAUDE database and  21 verify that the ones that were not  22 reportable we could not find MDR reports  23 that were associated with those. So that's  24 where they would have helped me.  25 Then the other aspect that I asked</p>	<p style="text-align: right;">Page 264</p> <p>1 Q. Okay. Did you look at how many of  2 the reports were based on filed lawsuits?  3 A. I did take a look at that more  4 recently, not so much in the number that I  5 recall to speak about but the percentage.  6 At various times -- and I would have to go  7 back and look at the information to verify  8 my memory whether it was 2012 -- I think it  9 was 2012 to 2014 that we looked at. It  10 could have been 2013 to 2015. I would have  11 to go back and just double-check the years,  12 but based on an assessment of the event  13 description, if attorney reported was  14 mentioned, in one of the years, it was  15 35 percent.  16 One year -- on one of the years, it  17 was -- I looked at TVT and TVT-O, and they  18 were both very similar. It was around  19 35 percent, and then one year it was 80 to  20 81 percent, and then in the subsequent year,  21 it was about 50 percent.  22 Q. Okay. What year was it 80 to  23 81 percent?  24 A. That's what I'm trying to remember  25 if we looked at 2012 to 2014 or 2013 to</p>
<p style="text-align: right;">Page 263</p> <p>1 them to help me with was to go through the  2 different issue reports and read through  3 them and categorize them according to what  4 the adverse reaction was. Was it difficulty  5 walking? Was it a urinary problem? Was it  6 erosion? What was it so that I'd have those  7 in the categories, and then I could go  8 through and individually review them as to  9 what was reportable or whether it was a  10 malfunction function and whether it was  11 reportable or not.  12 Q. How were duplicates culled out?  13 A. The -- in two ways: We look at the  14 -- to see if -- sometimes you'll have the  15 same report number. It will appear more  16 than once in your download, and we get rid  17 of anything of that nature.  18 Also -- and I think I have a  19 description in here as well, but also we  20 would read through -- as I mentioned, we  21 read through the event descriptions, and if  22 it looks like everything is the same, and we  23 can verify that everything appears to be the  24 same in the reports, then we would not  25 report it twice.</p>	<p style="text-align: right;">Page 265</p> <p>1 2015, and I have to go back and look at my  2 records. I just can't -- I don't want to  3 confirm without double checking my memory.  4 Q. Okay. There was a reference -- if  5 you turn to your Exhibit 1 of your report,  6 which was the MAUDE database in your  7 report --  8 A. Okay.  9 Q. -- and on the second page, middle  10 of the page --  11 A. The table.  12 Q. I'm sorry. First page.  13 A. Oh, I'm sorry.  14 Q. There's a reference there, fourth  15 paragraph down, "All such MDRs were reviewed  16 and an Excel workbook was created to record  17 the information provided by the adverse  18 events."  19 Do you see that?  20 A. Yes.  21 Q. Do you have that Excel workbook?  22 A. It should be in our archives.  23 Q. Okay.  24 A. We did change servers.  25 Q. Here we go, Hilary.</p>

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<p style="text-align: right;">Page 266</p> <p>1 A. It's the truth. We did. It should 2 be there. 3 Q. All right. I'm going to send a 4 request for that. You won't have any 5 heartburn turning that over to me, would 6 you? 7 MR. GOSS: Send it to me. Send 8 the request to me. 9 MS. SUTHERLAND: I'll send it 10 to you. 11 /// 12 BY MS. SUTHERLAND: 13 Q. Did you rely on that for some of 14 the opinions in your report? 15 A. Yes. We downloaded the information 16 into the Excel workbook. 17 Q. Yeah. And then you used that Excel 18 workbook when you were formulating some of 19 your opinions; right? 20 A. Yes. We -- 21 MR. GOSS: Objection. Form. 22 BY MS. SUTHERLAND: 23 Q. And some of the charts that you've 24 had in your report? 25 A. Yes. Exactly.</p>	<p style="text-align: right;">Page 268</p> <p>1 times Ethicon tried to follow up but yet got 2 no more information? 3 A. That alone does not. My own review 4 of the information, I found a number of 5 instances where the investigation was very 6 limited. 7 Q. Can you give me an example of a 8 particular issue report? 9 A. I can't without going back and 10 looking at my records. 11 Q. Okay. 12 A. But hold on just a minute. Let me 13 see if I can locate anything that would help 14 to address your question. 15 Q. I've forgotten what my question 16 was. 17 Would you read it back? 18 (Record read by the 19 reporter as follows: 20 Can you give me an example of a particular issue 21 report?") 22 BY MS. SUTHERLAND: 23 Q. I know you said no to that. 24 Are you looking for an average of 25 attempts at follow up that might be in your report somewhere?</p>
<p style="text-align: right;">Page 267</p> <p>1 Q. All right. Do the MDR reports set 2 out pre-existing conditions? Let me ask it 3 as an example. For instance, I know some of 4 your charts show reports of dyspareunia. 5 A. Right. 6 Q. Do you know how many of those women 7 reporting dyspareunia actually had it before 8 any kind of mesh device was implanted? 9 MR. GOSS: Objection. Form. 10 THE WITNESS: No, not 11 without -- not without going back and 12 reading each one. 13 BY MS. SUTHERLAND: 14 Q. And sometimes it wouldn't be in 15 there anyways; right? 16 A. No, and that's why the manufacturer 17 has responsibility to investigate. 18 Q. And from your review, how often did 19 Ethicon attempt to follow up for reports? 20 A. My -- I'm checking my memory -- let 21 me just double check. If you look on 22 page 124 of the main report, I note that the 23 majority of reports were initial reports 24 rather than follow-up reports. 25 Q. Okay. Does that tell you how many</p>	<p style="text-align: right;">Page 269</p> <p>1 A. No. That wouldn't be there, but I 2 was going to -- I was looking to see if I 3 might be able to give you a specific 4 example, which I thought was your question; 5 right? 6 Q. Well, it was, and I thought you 7 said you couldn't come up with one, as you 8 sit here. 9 A. Right. Then I decided to look at 10 my report. 11 For example, on page 26, this is 12 one of the issue reports that was determined 13 by Ethicon not to be reportable. 14 Q. Did you say 26 or 126? 15 A. 126. Sorry. 16 Q. Got it. 17 A. And, for example, it says, 18 "Notably, it was speculation and my 19 professional opinion for the medical 20 reviewer to conclude that the erosion would 21 not worsen and/or require treatment, and I 22 reviewed no evidence of follow up by Ethicon 23 to determine outcome of the erosion. The 24 status was indicated as closed within 25 approximately two months of the alert date."</p>

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<p style="text-align: right;">Page 270</p> <p>1 So that's an example of where they 2 should have followed up to see if there were 3 any consequences to really understand the 4 safety profile of the product and feed that 5 risk information back into the risk 6 analysis, which should always be ongoing 7 during the development -- during the 8 marketing of a product, post-marketing as 9 well as pre-marketing, to assure that 10 there's a favorable benefit to risk ratio. 11 Q. As far as attempts at follow up, 12 did you come up with any sort of average of 13 the number of times that Ethicon attempts to 14 follow up to get information? 15 A. As I sit here today, I don't recall 16 having come up with a particular number 17 because the point, again, is not -- 18 Q. Well, I think you answered my 19 question. 20 A. -- not the number. It's the fact 21 that they have an obligation to follow these 22 up to understand the safety profile of their 23 product and report as appropriate. 24 Q. I'm going to move to strike 25 everything after you didn't come up with a</p>	<p style="text-align: right;">Page 272</p> <p>1 information necessary to make that 2 determination. 3 Q. Yeah. My question is: In order to 4 be a reportable event to FDA, do you, number 5 one, have to have a product identified? 6 MR. GOSS: Objection. Form. 7 THE WITNESS: Generally 8 speaking, I would say, yes. 9 BY MS. SUTHERLAND: 10 Q. I was going to say -- 11 A. But -- well, no. But I'm 12 hesitating because it's not a black and 13 white necessarily question because you can 14 get a report that says, "We used an Ethicon 15 product, and we implanted this device, and 16 the woman in whom we implanted it is 17 continuing to have chronic infection and 18 erosion," and they may not state what the 19 device is. 20 So you have to follow that up. You 21 need to make sure it's your product and 22 through investigation, try and -- you have 23 to make a due diligence effort, a valid due 24 diligence effort, and Ethicon has its own 25 standard operating procedures.</p>
<p style="text-align: right;">Page 271</p> <p>1 specific number. 2 Going back to MDR reports, are 3 there certain requirements that have to be 4 present in order for a reported event to be 5 reportable to FDA? 6 A. Yes. 7 Q. Okay. And what are those? 8 A. It has to be a serious or 9 life-threatening event where there is a 10 reasonable association with the device, and 11 as well for malfunctions, if that 12 malfunction were to recur, that a serious or 13 life-threatening event could result. 14 Q. Okay. Is there also a similar 15 requirement for devices like there is for 16 drugs that a reporter has to be identified, 17 an event, a patient, and a product? 18 A. I'm not sure exactly what you're 19 asking because a report from any source -- 20 obviously, there has to be -- 21 Q. There's got to be a reporter. 22 A. There's got to be a reporter. 23 Q. Right. 24 A. And information that you can follow 25 up to determine whether or not -- to get the</p>	<p style="text-align: right;">Page 273</p> <p>1 They know what they must do to 2 follow it up to determine what product it is 3 and to find out more about the information 4 to determine whether it's reportable, 5 whether there's a follow-up report required, 6 et cetera. 7 And the whole basis of that, again, 8 is to always substantiate that a product is 9 meeting the essential principles of safety 10 and performance. If it's not Ethicon's 11 product, and they get a report for some 12 other manufacturer's mesh, they don't have 13 to submit an MDR report, but they are 14 supposed to send a letter to the FDA letting 15 the FDA know about it so that that 16 information doesn't get lost. 17 Again, all in the interest of 18 patient safety. But, generally speaking, 19 they need to -- you know, they could also 20 make a report that says this -- there should 21 always be a tendency in the global standard. 22 There should always be a tendency in doubt, 23 when you're in doubt, to report rather than 24 not to report. 25 So if they're unable to determine</p>

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<p style="text-align: right;">Page 274</p> <p>1 which particular product it was, but it's  2 fairly substantiated that it was an Ethicon  3 product, and it was a sling, but they can't  4 determine if it was a TVT or a TVT-O, they  5 could still report that to the FDA and say  6 unable to determine which sling but  7 information confirms that it's an Ethicon  8 sling.  9 Q. And did you, in fact, see where  10 Ethicon did that very thing?  11 A. I don't recall a specific example  12 of that, as I sit here today.  13 Q. Are you saying it didn't happen, or  14 you just don't recall?  15 MR. GOSS: Objection. Form.  16 THE WITNESS: No. I just don't  17 recall, as I sit here today.  18 BY MS. SUTHERLAND:  19 Q. All right. Did you look at the  20 reported events to see whether or not  21 Ethicon took even a more conservative  22 approach and reported something that you  23 wouldn't have reported?  24 MR. GOSS: Objection. Form.  25 BY MS. SUTHERLAND:</p>	<p style="text-align: right;">Page 276</p> <p>1 I'm going to start with the Global  2 Harmonization Task Force issues.  3 A. Okay.  4 Q. Now, am I correct that the Global  5 Harmonization Task Force was sort of formed  6 in 1992?  7 A. Yes.  8 Q. All right. And as I understand it,  9 there were members from different countries,  10 approximately five --  11 A. Yes.  12 Q. -- for sort of the task force.  13 A. Countries or regions.  14 Q. All right. And would that be the  15 European Union?  16 A. Yes.  17 Q. The U.S.?  18 A. Yes.  19 Q. Canada?  20 A. Yes.  21 Q. Japan?  22 A. Yes.  23 Q. And France?  24 A. Oh, I think it was Australia.  25 Q. Oh, they met -- yeah, I think</p>
<p style="text-align: right;">Page 275</p> <p>1 Q. Did you perform that review?  2 A. As you've asked the question, as I  3 understand it, I didn't perform that review.  4 Q. Okay.  5 A. As I mentioned, there should always  6 be a tendency, if there's any question, to  7 report rather than not to report.  8 Q. Okay. Move to strike everything  9 after "I did not perform that review."  10 Is there a requirement for some  11 sort of identifier of a patient in order for  12 an adverse event to be reportable, meaning  13 the gender of the patient, the age,  14 something like that?  15 A. The age, no. The gender, not  16 necessarily. If it's a device that can be  17 used in both sexes, you provide -- again,  18 that's why you investigate. You try and  19 obtain as much information as necessary, and  20 then you make an appropriate judgment as to  21 whether or not it needs to be reported.  22 Q. All right. Let's switch gears  23 again, and I'm going to walk you through  24 some particular aspects of your report that  25 we haven't already covered, part of which</p>	<p style="text-align: right;">Page 277</p> <p>1 you're right. Australia.  2 Was the purpose of the GHTF to come  3 up with some documents that harmonized  4 regulatory processes across the countries?  5 A. Yes. To provide a global model --  6 Q. All right.  7 A. -- for development of medical  8 devices with the intent of patient safety  9 and being able to bring important new  10 technologies to the market in a safe, cost  11 effective, efficient manner.  12 Q. And in that effort to reach that  13 goal, am I correct that certain guidances  14 were promulgated by the GHTF?  15 A. Yes, that's correct.  16 Q. All right. Was the intent then  17 that those guidances would then be adopted  18 by the regulatory agencies of those  19 different countries or regions?  20 A. Yes. And even beyond those  21 countries and regions but would even be more  22 global and other countries that didn't have  23 as well -- the countries and regions that  24 were involved had more established  25 regulatory framework for medical devices,</p>

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<p style="text-align: right;">Page 278</p> <p>1 and so for countries and regions that didn't  2 have as well developed regulatory framework,  3 this would also -- the GHTF guidance  4 documents would also help those countries to  5 be able to have a framework for development  6 of safe and effective medical devices.  7 Q. And all of this was for the  8 regulatory processes in the different  9 countries to be harmonized so that, for  10 instance, a manufacturer in one country knew  11 what was required for clearance in another  12 country across the globe.  13 A. It was more than that. It  14 certainly was for that purpose, but it was  15 also to establish the standards for testing,  16 for labeling, the guidances for risk  17 management, quality system for manufacturers  18 because the Global Harmonization Task Force  19 was a partnership between the industry and  20 regulators so that there was equal  21 representation across industry and  22 regulators for GHTF for its approximately  23 20-year history.  24 Q. Now, study groups were created  25 under the umbrella of the GHTF; correct?</p>	<p style="text-align: right;">Page 280</p> <p>1 device industry group in the United States?  2 A. I would say, yes.  3 Q. All right.  4 A. That's my understanding.  5 Q. Now, under this first section  6 there, Global Harmonization Task Force of  7 1992, it sets out sort of what we've already  8 talked about that in September 1992, senior  9 regulate officials and industry reps from  10 those different areas met in France;  11 correct?  12 A. Right.  13 Q. And that was for the purpose of  14 exploring "the formation of a global  15 partnership chartered to harmonize medical  16 device regulatory practices worldwide"; is  17 that right?  18 A. That's what this says, yes.  19 Q. Is that not right?  20 A. No. I said that was right, but, I  21 think, it also provides documentation for  22 how to develop a medical device to guide  23 manufacturers and how the appropriate  24 methods -- the appropriate types of testing,  25 labeling requirements, risk assessment,</p>
<p style="text-align: right;">Page 279</p> <p>1 A. That's correct.  2 Q. And there were five of them?  3 A. That's correct.  4 Q. And those leaders of those study  5 groups were all regulators, weren't they?  6 A. I don't know specifically if the  7 leaders were all regulators. The study  8 groups were compromised of both regulators  9 and -- both regulators and industry  10 representatives.  11 Q. All right. I'm going to hand you  12 what I've marked as Exhibit Number 12.  13 (Exhibit Number 12 was  14 marked for identification.)  15 BY MS. SUTHERLAND:  16 Q. This is a printout of AdvaMed's  17 40th anniversary discussing the GHTF.  18 Now, have you ever seen this  19 document before?  20 A. I don't recall, as I sit here  21 today, having seen this particular one.  22 Q. All right. What is AdvaMed?  23 A. It's an industry organization that  24 represents medical device companies.  25 Q. Okay. Is it the largest medical</p>	<p style="text-align: right;">Page 281</p> <p>1 quality system, it sets out the standards  2 for medical device companies to follow in  3 being able to bring safe, effective, quality  4 products to market.  5 Q. Now, those guidances were based on  6 regulations already in place in the  7 different countries that were members of  8 GHTF, weren't they?  9 A. They utilized those, yes. But,  10 again, it's a representation of medical  11 device industry, AdvaMed participated. If I  12 recall correctly, AdvaMed was on the  13 steering committee, and AdvaMed  14 participated, representatives from companies  15 that were part of AdvaMed participated, and  16 then the regulators.  17 Q. Now, the third paragraph in there  18 said that "The mission of GHTF was to  19 encourage the convergence in regulatory  20 practices related to ensuring the safety,  21 effectiveness, and quality of medical  22 devices."  23 Do you agree with that statement?  24 A. Yes, as well as the rest, which is  25 promoting technological innovation which has</p>



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<p style="text-align: right;">Page 282</p> <p>1 to do with companies --</p> <p>2 Q. Right.</p> <p>3 A. -- and facilitating international</p> <p>4 trade.</p> <p>5 Q. Correct. And then it goes on and</p> <p>6 says, "This important task was accomplished</p> <p>7 through the development and dissemination of</p> <p>8 harmonized guidance documents on regulatory</p> <p>9 practices."</p> <p>10 Do you agree with that statement?</p> <p>11 A. Yes, but it's more than regulatory</p> <p>12 practices because there are documents that</p> <p>13 talk about clinical evaluation, what</p> <p>14 clinical evidence means, all of the same</p> <p>15 kind of -- it's not just for regulators.</p> <p>16 This information is intended to be</p> <p>17 used by companies developing products in</p> <p>18 order to take the appropriate steps and have</p> <p>19 a model to follow to produce safe and</p> <p>20 effective and high-quality products, quality</p> <p>21 product, to bring to the market in their</p> <p>22 various regions or countries.</p> <p>23 Q. It goes on to say, "These critical</p> <p>24 documents" -- meaning these guidances --</p> <p>25 "which were developed by the five different</p>	<p style="text-align: right;">Page 284</p> <p>1 Q. And that pilot program that you're</p> <p>2 talking about, is that set out in some sort</p> <p>3 of FDA document?</p> <p>4 A. Yes. It's on the -- you can find</p> <p>5 it on the FDA website.</p> <p>6 Q. All right. Other than that pilot</p> <p>7 program that you're talking about on</p> <p>8 auditing, did FDA adopt any other guidance</p> <p>9 put out by GHTF?</p> <p>10 A. If you'll -- Tim Ulatowski, who is</p> <p>11 your expert in these cases, actually, back</p> <p>12 around --</p> <p>13 Q. Well, you note something from him</p> <p>14 from 2009 in your report.</p> <p>15 A. I said they were becoming -- that</p> <p>16 companies should be aware of them, that they</p> <p>17 were becoming the standard. And --</p> <p>18 Q. And my question is a little bit</p> <p>19 different.</p> <p>20 MR. GOSS: Wait, wait, wait,</p> <p>21 wait. Slow down a little bit.</p> <p>22 BY MS. SUTHERLAND:</p> <p>23 Q. My question was specifically on</p> <p>24 whether you can tell me which, if any,</p> <p>25 guidance put out by GHTF has been adopted by</p>
<p style="text-align: right;">Page 283</p> <p>1 study groups were then to be implemented by</p> <p>2 member national regulatory authorities to</p> <p>3 further the goal of harmonization."</p> <p>4 Now, was that -- is that your</p> <p>5 understanding of what was to be accomplished</p> <p>6 through the GHTF?</p> <p>7 A. Yes.</p> <p>8 Q. Okay.</p> <p>9 A. Yes.</p> <p>10 Q. Which GHTF guidances were adopted</p> <p>11 by FDA?</p> <p>12 A. There are -- there are a number of</p> <p>13 those like, for example, the auditing one.</p> <p>14 FDA is currently using a GHTF auditing</p> <p>15 guidance in cooperation with, I believe,</p> <p>16 it's Japan and maybe Canada -- I'd have to</p> <p>17 check back to refresh my memory -- to look</p> <p>18 at an auditing model to audit medical device</p> <p>19 companies so that they don't have to be</p> <p>20 audited by multiple countries and that by</p> <p>21 working together through GHTF, the GHTF</p> <p>22 model for auditing, that they all accept</p> <p>23 that whatever the audit is, that they will</p> <p>24 accept the -- it's a pilot program</p> <p>25 currently.</p>	<p style="text-align: right;">Page 285</p> <p>1 FDA.</p> <p>2 A. I would have to check the status of</p> <p>3 it. I know that there was also a pilot</p> <p>4 program where the FDA was encouraging the</p> <p>5 use of the STED document for submission of</p> <p>6 medical device applications. I would have</p> <p>7 to check the status of that, at this point</p> <p>8 in time.</p> <p>9 Many of the GHTF documents are very</p> <p>10 reflective already of the FDA regulations</p> <p>11 because obviously FDA was a major</p> <p>12 participant.</p> <p>13 Q. Now, is this the pilot program on</p> <p>14 the STED that you're talking about?</p> <p>15 Let me mark that as 13.</p> <p>16 (Exhibit Number 13 was</p> <p>17 marked for identification.)</p> <p>18 THE WITNESS: Yes.</p> <p>19 BY MS. SUTHERLAND:</p> <p>20 Q. Okay. Now, I'm not aware of that</p> <p>21 actually being implemented past 2005. Are</p> <p>22 you?</p> <p>23 A. Not without checking, I don't</p> <p>24 recall.</p> <p>25 Q. All right. So now other than the</p>

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<p style="text-align: right;">Page 286</p> <p>1 two pilot programs that you've mentioned to  2 me, are you aware of any guidance from GHTF  3 that FDA has adopted?  4 A. As I sit here today, I don't recall  5 without going back and looking at all of  6 them --  7 Q. Okay.  8 A. -- and checking. What I can tell  9 you in answer to your question is that the  10 reason for -- I was able to find some  11 further documentation. The reason for  12 disbanding GHTF and transitioning GHTF's  13 work to IMDRF was specifically for that  14 purpose. That incorporation of these  15 guidance documents into the regulatory  16 framework to the regulations had been slower  17 than had been hoped and so --  18 Q. In fact, not at all; right?  19 A. Well, in some places, I don't think  20 that's true. They are in the U.S.  21 Q. In the U.S., not at all; right?  22 A. In the U.S., but in other places,  23 they were being incorporated, but the  24 incorporation was slower than anticipated,  25 and so the regulators decided that they</p>	<p style="text-align: right;">Page 288</p> <p>1 And I just had a quick question.  2 You note there about the Medscand payments  3 of 400,000 --  4 A. Yes.  5 Q. -- and that -- are you offering an  6 opinion that that financial information  7 should have been disclosed in the TVT  8 510(k)?  9 A. Yes.  10 Q. All right. And am I correct,  11 though, that the regulation requiring that  12 type of disclosure actually wasn't finalized  13 until after the submission of the TVT  14 510(k)?  15 A. That is correct.  16 Q. All right. Let's move on to  17 page 54. And as I review your report, at  18 least for this specific one, I understood  19 you to be saying that there were two  20 cytotoxicity tests that should have been  21 provided to FDA?  22 A. Yes.  23 Q. All right. Now --  24 A. Or should have -- and should have  25 been also followed up further to understand</p>
<p style="text-align: right;">Page 287</p> <p>1 could make that happen after the 20 years of  2 GHTF and with the global framework that had  3 been developed, that now if the regulators  4 were to take the ball, if you will, that  5 they could work more effectively to get the  6 GHTF guidance documents and any new  7 documents that IMDRF would develop  8 incorporated into the regulations of their  9 respective areas.  10 Q. All right. And IMDRF doesn't have  11 industry representatives right?  12 A. No. It's all regulators.  13 Q. All regulators. Okay.  14 MS. SUTHERLAND: How much time  15 do we have?  16 THE VIDEOGRAPHER: About --  17 you're at 5 hours 24 minutes.  18 MS. SUTHERLAND: Let's keep  19 going.  20 BY MS. SUTHERLAND:  21 Q. Flip over to page 42.  22 A. Of my report?  23 Q. Of your report, yes, ma'am.  24 A. 42?  25 Q. Yes, ma'am.</p>	<p style="text-align: right;">Page 289</p> <p>1 why they were getting positive cytotoxicity  2 tests.  3 Q. Okay. I got you.  4 But what I'm going for here is what  5 are you going to tell a jury that Ethicon  6 should have given to FDA but didn't, and I  7 know you and I have talked about the MDRs.  8 We've now talked about these two  9 cytotoxicity tests.  10 A. Right.  11 Q. Now, is there other specific  12 documentation that you're going to say  13 Ethicon should have given to FDA but didn't  14 with respect to the TVT-O?  15 MR. GOSS: Objection. Form.  16 THE WITNESS: For example, the  17 issues with fraying and particle loss of  18 the mesh, the mechanically cut mesh, the  19 roping, the curling.  20 BY MS. SUTHERLAND:  21 Q. Yeah. I'm asking about can you  22 name for me a specific document that you're  23 talking about that you say Ethicon should  24 have give to FDA but didn't?  25 A. Well, there are a number of</p>

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<p style="text-align: right;">Page 290</p> <p>1 documents related to the fraying, the 2 particle loss. 3 Q. Can you tell -- I mean, I need to 4 know if you're going to say, "Ethicon should 5 have given this document to FDA," I want to 6 know what this document is. 7 A. Well, for example, if I'm recalling 8 correctly, Gene Kammerer's, the engineer, 9 lead engineer, Gene Kammerer -- there's a -- 10 I believe it's a PowerPoint presentation 11 where they're actually pictures of the mesh 12 and the particle loss and how the structure 13 is lost, the mesh structure is lost, and the 14 word "degradation" was used separate from 15 degradation once implanted, but degradation 16 of the structure of the mesh and the 17 particle loss and the fact that there was no 18 testing to determine whether or not those 19 particles might have any impact for safety 20 and effectiveness. 21 The narrowing -- the narrowing and 22 the roping and the curling of the mesh, the 23 fact that that was considered, and it's been 24 testified to by Ethicon employees that that 25 was a product defect.</p>	<p style="text-align: right;">Page 292</p> <p>1 Q. Those 58 reports of fraying, were 2 they reported to FDA's MDRs? 3 A. To the best of my recollection, 4 there may have been some but not all. I'd 5 have to go back and check my records. 6 That's to the best of my recollection. 7 Q. Okay. 8 A. And let's see -- yes. I know for 9 sure that in the discussion of malfunctions 10 in the back of my report. Definitely 11 there -- there, for example, eight reports 12 of the mesh fraying, unraveling, and on 13 fragments falling off, the tape becoming 14 particles. So there were definitely reports 15 that were not submitted to FDA. 16 Q. Okay. But there were actually some 17 reports of fraying that were reported to FDA 18 by Ethicon; right? 19 A. I'd have to go back and double 20 check. 21 Q. You don't know that sitting here 22 today? 23 A. There are many MDR reports. To the 24 best of my recollection as I sit here today, 25 there were some, but I'd have to just verify</p>
<p style="text-align: right;">Page 291</p> <p>1 Q. Okay. Now, you told me about a 2 PowerPoint -- 3 A. I believe it was a PowerPoint. 4 Q. -- by Mr. Kammerer. 5 A. Yes. 6 Q. All right. What other document are 7 you going to say should have been given to 8 FDA but wasn't? 9 A. At that point in time -- 10 Q. And what point in time are we 11 talking about? 12 A. Submission of 510(k). 13 Q. Okay. 14 A. Some of the documents I have 15 referenced, I don't have years indicated in 16 my reference. So without checking back the 17 document, I can't say whether it had the 18 information available at the time of 19 submission or not, but I do know, for 20 example, that by November, 2003, that they 21 had -- Ethicon had at least had received a 22 total of 58 complaints of fraying, and they 23 also had information from their preceptors 24 about denaturing and linting being a 25 concern, leaving particles in patients.</p>	<p style="text-align: right;">Page 293</p> <p>1 my memory. 2 Q. Okay. 3 A. And that's very important because 4 that goes not only to determining safety and 5 effectiveness, that's an important 6 consideration for FDA's determination of 7 substantial equivalence, and that 8 information was known to Ethicon and not 9 provided to the FDA. 10 Q. Move to strike everything after 11 your first clause where, I think, you said 12 that you thought some were reported to FDA, 13 but you'd have to confirm. 14 Let me get you to move to page 107 15 of your report. 16 A. Okay. 17 Q. And if we're flipping through 18 there, by my count, you pull out five pieces 19 of promotional material on pages 107 to 114. 20 Is that right? 21 A. I'll double check. Yes. 22 Q. All right. Now, are those five 23 pieces of promotional materials what you're 24 relying on to support your opinion number 4? 25 A. Yes.</p>

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<p style="text-align: right;">Page 294</p> <p>1 Q. Now, let's go back and look at --</p> <p>2 on page 107, the first piece that you have</p> <p>3 there.</p> <p>4 A. Okay.</p> <p>5 Q. All right. First of all, that</p> <p>6 one's entitled "Only Gynecare TVT Has</p> <p>7 Long-Term Results You Can See -- blah, blah,</p> <p>8 blah -- "and Believe."</p> <p>9 A. Right.</p> <p>10 Q. All right. Now, do you have any</p> <p>11 information that the implanter in the</p> <p>12 Jennifer Ramirez case, Dr. Reyes, saw that</p> <p>13 piece?</p> <p>14 MR. GOSS: Objection. Form.</p> <p>15 MS. VERBEEK: Same objection.</p> <p>16 THE WITNESS: I don't recall</p> <p>17 that he testified about this --</p> <p>18 BY MS. SUTHERLAND:</p> <p>19 Q. Okay.</p> <p>20 A. -- as I sit here today.</p> <p>21 Q. All right. Have you done any kind</p> <p>22 of survey of surgeons to determine what</p> <p>23 their perception is of this particular</p> <p>24 piece, number 1, on your report, page 107?</p> <p>25 A. No. My evaluation was based on</p>	<p style="text-align: right;">Page 296</p> <p>1 disclosed.</p> <p>2 Q. And then move to page 110 of your</p> <p>3 report, and there's your second marketing</p> <p>4 piece.</p> <p>5 A. Yes.</p> <p>6 Q. All right. Now, do you have any</p> <p>7 information that Dr. Reyes saw this</p> <p>8 particular marketing piece?</p> <p>9 MS. VERBEEK: Object to form.</p> <p>10 MR. GOSS: Objection. Form.</p> <p>11 THE WITNESS: To the best of my</p> <p>12 recollection as I sit here today, I</p> <p>13 don't recall that he testified as to</p> <p>14 having seen this particular piece.</p> <p>15 BY MS. SUTHERLAND:</p> <p>16 Q. All right. Now, did you perform</p> <p>17 any kind of survey to determine how</p> <p>18 physicians perceived this particular</p> <p>19 marketing piece?</p> <p>20 MR. GOSS: Objection. Form.</p> <p>21 MS. VERBEEK: Objection. Form.</p> <p>22 THE WITNESS: My assessment was</p> <p>23 based on the requirements for what is</p> <p>24 supposed to be in promotional labeling.</p> <p>25 I did not perform a survey.</p>
<p style="text-align: right;">Page 295</p> <p>1 what the requirements are for promotional</p> <p>2 labeling.</p> <p>3 Q. Now, you discuss there in that</p> <p>4 paragraph that the financial conflicts of</p> <p>5 Professor Ulmsten and Professor Nilsson were</p> <p>6 not disclosed; correct?</p> <p>7 A. That's correct.</p> <p>8 Q. All right. Now, are you opining</p> <p>9 that Professor Ulmsten or Professor Nilsson</p> <p>10 manipulated their data to make it</p> <p>11 inaccurate?</p> <p>12 A. I'm not opining that. What I'm</p> <p>13 opining is that there is -- any time there</p> <p>14 is a financial arrangement that could impact</p> <p>15 one's assessment of data and particularly</p> <p>16 where positive data is required in order for</p> <p>17 a payment to be made, there is the potential</p> <p>18 for bias, and that information should be</p> <p>19 disclosed so that the reader of -- in this</p> <p>20 case, the promotional labeling, understands</p> <p>21 that there was financial incentive for the</p> <p>22 authors of that data.</p> <p>23 I'm not saying that they did. I'm</p> <p>24 saying that presents a potential for bias,</p> <p>25 and that's the reason it should be</p>	<p style="text-align: right;">Page 297</p> <p>1 BY MS. SUTHERLAND:</p> <p>2 Q. And with respect to -- you note,</p> <p>3 again, the financial conflict of Professor</p> <p>4 Ulmsten and Nilsson; right?</p> <p>5 A. Yes.</p> <p>6 Q. And then you also pull in Professor</p> <p>7 de Leval; correct? Do you see that last</p> <p>8 sentence there on the first paragraph?</p> <p>9 A. Yes, I do.</p> <p>10 Q. Okay. Now, are you opining that</p> <p>11 Professor de Leval manipulated his data to</p> <p>12 make it inaccurate?</p> <p>13 A. No. I'm, again, opining that</p> <p>14 there's a potential for bias and because of</p> <p>15 that potential for bias, it is the standard,</p> <p>16 it's a requirement from a regulatory</p> <p>17 standpoint at this point in time, in fact,</p> <p>18 by the time of the TVT-O but no clinical</p> <p>19 data was included in the special 510(k) for</p> <p>20 TVT-O.</p> <p>21 It's a regulatory requirement, but</p> <p>22 it's also the standard of -- the standard</p> <p>23 for publications that that type of</p> <p>24 information be disclosed.</p> <p>25 Q. Okay. Move to strike everything</p>

75 (Pages 294 to 297)

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<p style="text-align: right;">Page 298</p> <p>1 after "no."  2 If you turn to page 112 of your  3 report, and that gets us to your third  4 marketing piece?  5 A. Yes.  6 Q. And this one is dated 2010?  7 A. Yes.  8 Q. All right. Now, do you have any  9 information that Dr. Reyes saw this  10 marketing piece?  11 MR. GOSS: Objection. Form.  12 THE WITNESS: I don't recall.  13 MS. VERBEEK: Objection. Form.  14 THE WITNESS: I don't recall  15 having seen testimony that as regards  16 his having seen this piece.  17 BY MS. SUTHERLAND:  18 Q. Okay. Did you perform any kind of  19 survey to determine physicians perceptions  20 of this particular marketing piece on  21 page 112?  22 MR. GOSS: Objection. Form.  23 MS. VERBEEK: Object to form.  24 THE WITNESS: With the same  25 comment as I made for the prior two, no,</p>	<p style="text-align: right;">Page 300</p> <p>1 survey.  2 BY MS. SUTHERLAND:  3 Q. All right. And for the last piece  4 on page 5, did you perform any kind of  5 survey to determine physicians perception of  6 that fifth marketing piece?  7 MS. VERBEEK: Object to form.  8 THE WITNESS: With the same  9 comments as for the prior promotional  10 labeling pieces, no.  11 BY MS. SUTHERLAND:  12 Q. All right. And do you have any  13 information that Dr. Reyes saw this  14 particular piece?  15 A. I don't recall any specific  16 information in his testimony as regards to  17 this piece, as I sit here today.  18 Q. Under your opinion there, the  19 second sentence you note, "Labelling can be  20 deemed by FDA to be misleading and in  21 violation of FDA requirements if it proves  22 deceptive to the customer by creating or  23 leading to a false impression in the mind of  24 the reader."  25 Did I read that correctly?</p>
<p style="text-align: right;">Page 299</p> <p>1 I did not.  2 BY MS. SUTHERLAND:  3 Q. Okay. Turn to page 114. And up at  4 the top, we have your fourth marketing  5 piece.  6 A. Yes.  7 Q. And, again, do you have any  8 information that Dr. Reyes saw this  9 particular marketing piece?  10 MS. VERBEEK: Object to form.  11 THE WITNESS: I do not recall  12 his having testified that he had seen  13 this, as I sit here today.  14 BY MS. SUTHERLAND:  15 Q. Okay. Did you perform any kind of  16 survey to determine physicians perception of  17 this particular piece?  18 MR. GOSS: Objection. Form.  19 MS. VERBEEK: Object to form.  20 THE WITNESS: My assessment and  21 my opinion is based on a review of --  22 based on a review of the piece as  23 regards the requirement for promotional  24 labeling must meet, just as for the  25 other pieces, and I did not perform a</p>	<p style="text-align: right;">Page 301</p> <p>1 A. Yes, you did.  2 Q. All right. Now, number one, has  3 FDA ever issued any kind of documentation  4 for these five pieces saying that they were  5 misleading or in violation of any FDA  6 requirement?  7 A. Not that I've seen, but they were  8 not just submitted to FDA, as far as I know.  9 So they weren't provided to FDA for comment.  10 Q. Move to strike everything after  11 "Not that I've seen."  12 And with respect to determining if  13 the piece proved deceptive to the customer  14 by creating or leading to a false impression  15 in the mind of the reader, would the reader  16 be intended to be obviously a physician;  17 correct?  18 A. Yes. For these pieces, yes.  19 Q. All right. Did you talk to any  20 physician who actually saw any of these  21 pieces?  22 A. No, I did not. And I've given my  23 rationale for each of these pieces as to why  24 it was false and misleading.  25 Q. And we already know that you didn't</p>



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<p style="text-align: right;">Page 302</p> <p>1 do any kind of survey to determine if any  2 physician got a false impression in their  3 mind after reading any of these five pieces;  4 correct?  5 MR. GOSS: Objection. Form.  6 THE WITNESS: Based on my  7 experience --  8 BY MS. SUTHERLAND:  9 Q. Is that a yes or a no?  10 A. I can't give you just a yes or no.  11 Q. Well, you didn't do a survey;  12 right?  13 A. I have, based on years of  14 experience and knowledge and reviewing, a  15 number of warning letters about what should  16 be in promotional labeling and what should  17 not as well as correspondence between  18 companies who have submitted labeling of  19 this type and FDA correspondence and based  20 on what the requirements are for what's  21 supposed to be included, I made my  22 assessment based on that and not a survey  23 because there's a certain standard that must  24 be met, and I made my assessment, and I've  25 given the rationale for each piece as to</p>	<p style="text-align: right;">Page 304</p> <p>1 carcinogenic. If I'm asked about that, I  2 would opine that there have been cases now  3 that have been reported where polypropylene  4 as well as other polyester meshes and TVTs  5 have been found in association with tumors  6 and that the authors of those reports have  7 not concluded that the mesh was the cause of  8 the tumor but that it may have been a  9 contributing factor.  10 Q. And are those case reports, the, I  11 think, four or five that are set out in your  12 report?  13 A. Yes.  14 Q. Are there any other pieces of  15 medical literature that you've looked at  16 addressing whether or not mesh is  17 carcinogenic?  18 MR. GOSS: Objection. Form.  19 THE WITNESS: There is, as  20 discussed in my report, in one of the  21 points I said should have been in the  22 warnings that there were rat sarcomas  23 that were identified in the material  24 safety data sheet with implantation.  25 BY MS. SUTHERLAND:</p>
<p style="text-align: right;">Page 303</p> <p>1 where it was false and misleading.  2 And I made my assessment based on  3 what the requirements are for this type of  4 labeling.  5 Q. All right. So in order to reach  6 this opinion -- essentially, we have your  7 opinion that under the FDA regs, it would  8 create or lead to a false impression in the  9 mind of a physician; correct?  10 A. My opinion based on many years of  11 experience.  12 Q. What we don't have is you even  13 talking to a single physician to confirm  14 your opinion; correct?  15 MR. GOSS: Objection. Form.  16 MS. VERBEEK: Object to form.  17 THE WITNESS: I have not talked  18 to a single physician. I based it on  19 the requirements for this type of  20 labeling and given the rationale for it,  21 for my opinions.  22 BY MS. SUTHERLAND:  23 Q. Do you intend to opine that Prolene  24 mesh is carcinogenic?  25 A. I don't intend to opine that it's</p>	<p style="text-align: right;">Page 305</p> <p>1 Q. I should have specified. I'm  2 asking about medical literature. Did you  3 look at any other medical literature that  4 addresses an issue of whether or not mesh is  5 associated with cancer other than what  6 you've got in your report?  7 A. I certainly have -- I can't give  8 you a specific -- I know I have looked at  9 solid state tumors and mesh and various --  10 I've looked into that. I can't give you a  11 specific document. I have done some  12 research on it. I can't give you a specific  13 document that I recall, as I sit here today.  14 Q. All right.  15 A. Those case reports are important  16 because of the information that they  17 present, and it needs to be considered and  18 for long-term implants, testing for -- and  19 that goes into the testing for long-term  20 inflammation, long-term infection.  21 These are -- this is one of the  22 reasons, for example, for doing further  23 testing, for having a registry. Without  24 having the appropriate follow up of these  25 patients, making such an association is</p>



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<p style="text-align: right;">Page 306</p> <p>1 difficult. It cannot be done actually.  2 Q. All right. I'm going to move to  3 strike everything after your first clause.  4 Would you agree with me that  5 TVT-O -- the mesh in TVT-O is Prolene mesh.  6 A. Yes.  7 Q. All right. And would you agree  8 with me that Prolene mesh has been used in  9 the body since the 1970s?  10 MR. GOSS: Objection. Form.  11 BY MS. SUTHERLAND:  12 Q. You know it was a preeminent  13 device; right?  14 THE WITNESS: Yes, I do.  15 MR. GOSS: Objection. Form.  16 THE WITNESS: Yes, I agree with  17 that, but there's more to be considered  18 than just that fact.  19 BY MS. SUTHERLAND:  20 Q. Okay. Well, my question is do you  21 know, or do you not know that Prolene mesh  22 has been used in the body since the 1970s?  23 MR. GOSS: Objection. Form.  24 THE WITNESS: Yes, I know that.  25 BY MS. SUTHERLAND:</p>	<p style="text-align: right;">Page 308</p> <p>1 THE WITNESS: If she does, I  2 have not seen any information with  3 regard to that.  4 BY MS. SUTHERLAND:  5 Q. Okay. All right.  6 A. I hope she doesn't.  7 Q. I hope she doesn't either.  8 MS. SUTHERLAND: Let's go off for a  9 few minutes. I think I've got maybe ten  10 minutes. Let me make sure I've covered  11 everything.  12 MR. GOSS: Are you going to  13 leave your co-defendant any time in the  14 six hours?  15 MS. SUTHERLAND: I didn't know  16 I needed to.  17 MS. VERBEEK: You probably  18 don't. You've worn me out.  19 MS. SUTHERLAND: I've worn  20 myself out.  21 THE VIDEOGRAPHER: Going off?  22 MS. SUTHERLAND: Yes.  23 THE VIDEOGRAPHER: With the  24 approval of counsel, going off the  25 record. The time is approximately</p>
<p style="text-align: right;">Page 307</p> <p>1 Q. Okay. Now, in the in 40 some-odd  2 years that Prolene mesh has been used in the  3 body, is there a single case report where a  4 doctor attributed cancer to Prolene mesh?  5 MR. GOSS: Objection. Form.  6 THE WITNESS: Well, the TVT is  7 Prolene mesh.  8 BY MS. SUTHERLAND:  9 Q. Well, that doctor didn't attribute  10 the issue to TVT, did he?  11 A. In one case, the authors concluded  12 that the bowel cancer in both cases is  13 unlikely to be caused by the mesh, but  14 chronic irritation by the mesh may be a  15 contributing factor and further cautioned --  16 this is the key point -- that it is  17 important to keep in mind that mesh surgery,  18 especially for prolapse procedures, has been  19 used for a relatively short duration of  20 time, and there may still be unknown  21 long-term complications associated with  22 their usage.  23 Q. Does Ms. Reyes have cancer? I'm  24 sorry. Ms. Ramirez.  25 MR. GOSS: Objection. Form.</p>	<p style="text-align: right;">Page 309</p> <p>1 4:37 p.m.  2 (Recess taken from  3 4:37 p.m. to 4:43 p.m.)  4 THE VIDEOGRAPHER: With the  5 approval of counsel, back on the record.  6 The time is approximately 4:43 p.m.  7 BY MS. SUTHERLAND:  8 Q. Doctor, let me get you to turn back  9 to page 59 of your report, if I could, and  10 this actually sets out your first opinion in  11 your report; right?  12 A. Yes.  13 Q. Now, as I understand it, you've got  14 an opinion that Ethicon failed to conduct  15 appropriate pre-market testing of the TVT-O?  16 A. That's correct.  17 Q. All right. Are you intending to  18 opine as to the specific protocol of trials  19 that Ethicon should have done pre-market  20 that it did not do for TVT-O?  21 MR. GOSS: Objection. Form.  22 THE WITNESS: Let me make two  23 points. One is that they didn't do the  24 appropriate testing pre-market but also  25 as new information was obtained and, for</p>

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<p style="text-align: right;">Page 310</p> <p>1 example, marketing of the laser-cut  2 mesh, post-marketing, they didn't --  3 they didn't do appropriate testing  4 either.  5 If I were to be asked what type  6 of study should have been done, I will  7 respond to that. I don't know if I'm  8 going to be asked that kind of question.  9 I could certainly opine about what types  10 of testing should have been done, but  11 the testing was inadequate.  12 BY MS. SUTHERLAND:  13 Q. Okay. Let me ask it this way: Do  14 you intend to opine that Ethicon should have  15 done clinical testing of TVT-O before  16 marketing the TVT-O?  17 A. Yes.  18 Q. All right. Are you intending to  19 opine as to a specific number of women that  20 should have been enrolled in a clinical  21 trial pre-market?  22 A. I don't intend to offer a specific  23 number of women because, as you and I have  24 discussed before, in order to arrive at a  25 specific number of women -- I could give</p>	<p style="text-align: right;">Page 312</p> <p>1 about during this particular trial?  2 A. No. As I sit here today, no.  3 MS. SUTHERLAND: All right.  4 I'm going to hand it to co-counsel for  5 any questions and maybe save three  6 minutes for my follow-up questions.  7 MS. VERBEEK: I'll reserve.  8 MS. SUTHERLAND: How much time  9 do we have?  10 THE VIDEOGRAPHER: Nine  11 minutes.  12 MS. SUTHERLAND: All right.  13 Let's go off. We'll switch.  14 THE VIDEOGRAPHER: With the  15 approval of counsel, going off the  16 record. The time is approximately  17 4:47 p.m.  18 (Recess taken from  19 4:47 p.m. to 5:06 p.m.)  20 THE VIDEOGRAPHER: With the  21 approval of counsel, back on the record.  22 The time is approximately 5:06 p.m.  23  24 EXAMINATION  25 BY MR. GOSS:</p>
<p style="text-align: right;">Page 311</p> <p>1 potentially a range that would have been  2 appropriate, but in order to arrive at a  3 specific number, one has to design the  4 study.  5 What the endpoints are. If it's a  6 comparative study, what the differences one  7 expects to see or no differences between  8 a -- one product and another depending on  9 what type of trial it is. Then one then  10 needs to give that information to a  11 statistician who does his calculations to  12 let you know how many patients you need to  13 include considering the possibility for  14 dropouts in order to be able to end up with  15 the right number of patients to be able to  16 answer the questions you're intending to ask  17 by your protocol.  18 Q. One is the loneliest number.  19 A. One meaning a person.  20 Q. So as you sit here today, have you,  21 in fact, designed a protocol that you intend  22 to opine about with respect to TVT-O --  23 strike that.  24 As you sit here today, have you put  25 together a protocol that you intend to opine</p>	<p style="text-align: right;">Page 313</p> <p>1 Q. Good almost evening, Dr. Pence.  2 A. Good evening.  3 Q. For the record, we met before. I'm  4 Tim Goss. You know I represent Jennifer  5 Ramirez.  6 A. Yes.  7 Q. And I retain -- my firm retained  8 you as an expert for her case.  9 A. Yes.  10 Q. And we are in Newport Beach,  11 California, and you are giving your  12 deposition in that case today; is that  13 right?  14 A. Yes, I am.  15 Q. And you've given your deposition  16 before?  17 A. I have.  18 Q. You understand that this case may  19 go to trial in San Antonio, Texas?  20 A. Yes, I do.  21 Q. And do you understand that your  22 testimony today is as if you are sitting in  23 that courtroom talking to that jury?  24 A. Yes, I do.  25 Q. Okay. And you've testified before</p>

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<p style="text-align: right;">Page 314</p> <p>1 juries before?</p> <p>2 A. Yes, I have.</p> <p>3 Q. Okay. Where do you currently</p> <p>4 reside?</p> <p>5 A. Newport Beach, California.</p> <p>6 Q. And where did you reside before</p> <p>7 that?</p> <p>8 A. Newberry Park, California.</p> <p>9 Q. You just recently moved to Newport?</p> <p>10 A. That's correct.</p> <p>11 Q. Why did you move to Newport?</p> <p>12 A. My son and his family, including my</p> <p>13 three grandchildren, live in Newport Beach.</p> <p>14 Q. Where did you grow up?</p> <p>15 A. I grew up in the south in Texas.</p> <p>16 Q. Where in Texas?</p> <p>17 A. I of New Braunfels and Wichita</p> <p>18 Falls, Texas.</p> <p>19 Q. So you're a little familiar with</p> <p>20 San Antonio, Texas?</p> <p>21 A. Yes, I am.</p> <p>22 Q. Okay. Let me mark your CV. I'm</p> <p>23 going to hand you what's been marked as</p> <p>24 Pence Exhibit 14.</p> <p>25 A. Thank you.</p>	<p style="text-align: right;">Page 316</p> <p>1 Q. And what type of degree was your</p> <p>2 major?</p> <p>3 A. Bachelor of science.</p> <p>4 Q. Okay. Why did you get it in</p> <p>5 science?</p> <p>6 A. From the time I was a little girl,</p> <p>7 as far back as I can remember, I was always</p> <p>8 interested in the medical field and in</p> <p>9 science and doing something to contribute</p> <p>10 and help people to feel better, to be</p> <p>11 better, better quality of life.</p> <p>12 Q. After you obtained your degree,</p> <p>13 your bachelor of science in microbiology,</p> <p>14 did you do further studies?</p> <p>15 A. Eventually I did, yes.</p> <p>16 Q. And did you get another degree?</p> <p>17 A. Yes, I did.</p> <p>18 Q. What did you get?</p> <p>19 A. A got a doctor of philosophy or a</p> <p>20 Ph.D. degree with a major in toxicology, a</p> <p>21 minor in pharmacology.</p> <p>22 Q. Where was that?</p> <p>23 A. That was at Indiana University</p> <p>24 Medical School.</p> <p>25 Q. And that's why we call you doctor.</p>
<p style="text-align: right;">Page 315</p> <p>1 (Exhibit Number 14 was</p> <p>2 marked for identification.)</p> <p>3 BY MS. SUTHERLAND:</p> <p>4 Q. And is that your personal CV?</p> <p>5 A. Yes, it is.</p> <p>6 Q. Okay. I'm going to walk through a</p> <p>7 little bit of this, and I'm not going to</p> <p>8 spend a lot of time on it, but I do want the</p> <p>9 jury to get a flavor of your education, your</p> <p>10 employment, and why you're an expert in this</p> <p>11 case. Okay?</p> <p>12 Where did you go to college?</p> <p>13 A. I did my undergraduate work at</p> <p>14 Louisiana Tech, Louisiana Polytechnic</p> <p>15 University, usually known as Louisiana Tech.</p> <p>16 Q. Were you born in Louisiana?</p> <p>17 A. No. I was actually born in</p> <p>18 Georgia.</p> <p>19 Q. Okay. Did you get a degree at</p> <p>20 Louisiana Polytech?</p> <p>21 A. Yes, I did.</p> <p>22 Q. And what did you get that degree</p> <p>23 in?</p> <p>24 A. My major was microbiology with</p> <p>25 minors in chemistry and zoology.</p>	<p style="text-align: right;">Page 317</p> <p>1 A. Yes.</p> <p>2 Q. You're not a medical doctor?</p> <p>3 A. No, I'm not.</p> <p>4 Q. Why don't you explain to the jury</p> <p>5 what toxicology is?</p> <p>6 A. Toxicology is the study of poisons</p> <p>7 in the context of medical device and</p> <p>8 pharmaceutical product development. It</p> <p>9 focuses on the study of the potential</p> <p>10 adverse effects of medical devices or</p> <p>11 pharmaceutical type drugs on the human body</p> <p>12 or on animals predicting what may happen in</p> <p>13 humans.</p> <p>14 Q. And you got your Ph.D. in</p> <p>15 toxicology?</p> <p>16 A. Yes, I did.</p> <p>17 Q. Tell the jury a little bit about</p> <p>18 what getting your Ph.D. entails.</p> <p>19 A. It requires, of course, a lot of</p> <p>20 didactic training, a large amount of</p> <p>21 coursework, and then for a Ph.D., it</p> <p>22 requires independent research and presenting</p> <p>23 that research to a committee, writing up</p> <p>24 your results, and getting those --</p> <p>25 submitting those results to the university,</p>

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<p style="text-align: right;">Page 318</p> <p>1 being examined on those results by your 2 committee, and they're assuring that you 3 meet the qualifications to receive your 4 receive your Ph.D. degree. 5 Q. You got a minor in pharmacology. 6 Explain to us what pharmacology is. 7 A. Pharmacology -- toxicology is a 8 subset of pharmacology. Pharmacology is the 9 study of both the adverse effects as well as 10 the -- more principally the effects of drugs 11 that are positive, how -- the beneficial 12 effects of drugs, how they act on the body, 13 how the body responds to them. 14 Q. So the study of toxicology and 15 pharmacology would include the study of the 16 benefits and risks of drugs? 17 A. That's correct. 18 Q. Okay. How long does it generally 19 take for someone to get a Ph.D. in 20 toxicology? 21 A. It generally takes four to five 22 years after -- once one enters the program. 23 In my case, it took, if I recall correctly, 24 a little over seven years because I was also 25 working full-time for a large part of that</p>	<p style="text-align: right;">Page 320</p> <p>1 Lilly and Company. 2 Q. Is Eli Lilly and Company similar to 3 Johnson &amp; Johnson and Ethicon? 4 MS. SUTHERLAND: Objection. 5 THE WITNESS: Yes. It's a 6 large pharmaceutical company. 7 BY MR. GOSS: 8 Q. Okay. And what did you do for Eli 9 Lilly? 10 A. I started out working in a basic 11 research laboratory developing various types 12 of assays and doing animal research in 13 the -- in immunology. 14 Q. What year was that? 15 A. 1970. 16 Q. 1970? 17 A. 1970. 18 Q. So for almost 40 years, have you 19 been either working with the industry or for 20 a pharmaceutical company? 21 A. This is my 47th year of work, I 22 think, when I calculated it recently. 23 Q. And has that all been encompassed 24 with either being employed by pharmaceutical 25 companies or advising pharmaceutical</p>
<p style="text-align: right;">Page 319</p> <p>1 time and raising a couple of children. 2 Q. Right. Are you currently employed? 3 A. Yes, I am. 4 Q. And how are you currently employed? 5 A. I am employed by Symbion Research 6 International. 7 Q. Okay. What is Symbion? 8 A. Symbion is a consulting company and 9 contract research organization. We work 10 with companies like medical device 11 companies, pharmaceutical companies, 12 companies developing biological therapeutics 13 to assist them with understanding what the 14 requirements are, what they need to do to 15 bring their products to the market, assuming 16 that the products turn out to be safe and 17 effective through all the appropriate 18 testing, and we work with them to help get 19 their products through the FDA process prior 20 to marketing and post-marketing. 21 Q. That's how you're currently 22 employed. Now I'm going to back you way up. 23 When you got out of school, where 24 did you go to work? 25 A. My first job after school was Eli</p>	<p style="text-align: right;">Page 321</p> <p>1 companies or manufacturers? 2 A. Yes. And one part of that period, 3 there was a three-year period where I was 4 still employed by Eli Lilly and Company but 5 worked in developing cosmetics. There are 6 correlations between -- cosmetics are also 7 regulated by the FDA. 8 Q. I saw you also worked for Serono. 9 Is that how you say it? 10 A. Yes, it is. 11 Q. What kind of company is that? 12 A. Serono Laboratories is also a 13 pharmaceutical company. 14 Q. You worked for Triton? 15 A. Yes, I did. 16 Q. What is Triton? 17 A. Triton was a pharmaceutical 18 company, a biotechnology company. It was, 19 at the time, a wholly owned subsidiary of 20 Shell Oil Company, and ultimately Shell -- 21 it was acquired by Berlex. 22 Q. And you worked for Amgen? 23 A. Yes, I did. 24 Q. What's Amgen? 25 A. Amgen is probably the major</p>

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<p style="text-align: right;">Page 322</p> <p>1 independent biotechnology company in the  2 country.  3 Q. After Amgen, then you went to work  4 with Symbion?  5 A. Yes. For a three-year period prior  6 to incorporating at Symbion, I operated as  7 an independent consultant and then  8 incorporated Symbion Research International,  9 founded the company in 1995.  10 Q. Okay. I'm going to ask you just an  11 overview of some things that you did for  12 these companies while you were working for  13 them.  14 Did you design clinical trials?  15 A. I did. Many.  16 Q. What's a clinical trial?  17 A. A clinical trial is a research  18 study in humans, and a clinical trial  19 specifically is one where patients are  20 randomly -- are assigned prospectively, I  21 should say, to one or more treatments.  22 Q. Did you do laboratory work?  23 A. Yes.  24 Q. Did you deal with clinical affairs?  25 A. Yes.</p>	<p style="text-align: right;">Page 324</p> <p>1 the TVT-O; is that right?  2 MS. SUTHERLAND: Objection.  3 THE WITNESS: That is correct.  4 BY MR. GOSS:  5 Q. Did you have any experience in  6 product development in your early  7 employment?  8 A. Yes. My whole career has been  9 involved in one aspect or another of product  10 development. In particular at Triton, I was  11 a project manager where I was responsible  12 for oversight of product development from  13 basic research all the way through in  14 preparation for market launch.  15 BY MR. GOSS:  16 Q. At any of these companies, did you  17 hold responsibility for making sure the  18 companies were complying with industry  19 standards?  20 MS. SUTHERLAND: Objection.  21 THE WITNESS: Always, yes.  22 Especially once we got into the  23 regulatory and clinical development  24 area, and that was particularly in 1997.  25 I'm sorry. 1977.</p>
<p style="text-align: right;">Page 323</p> <p>1 Q. What's clinical affairs?  2 A. Clinical affairs is the group  3 within companies that deals with the human  4 phase of testing of products.  5 Q. Did you -- were you responsible for  6 collecting data?  7 A. Yes, I was. Many times.  8 Q. Okay. What types of data?  9 A. A variety of types of data. All  10 the types of data that are collected in  11 clinical -- in a clinical trial or any type  12 of clinical study where one is looking -- is  13 administering one or more types of treatment  14 to a patient, different patients, human  15 subjects, and evaluating the outcome, both  16 safety and effectiveness data.  17 So it would include data to  18 determine whether or not the product is  19 working for its intended use. It would  20 include adverse reaction information and  21 clinical laboratory information, a whole  22 scope of information including patient  23 demographics.  24 Q. Part of what you've done in this  25 case is look at the product development for</p>	<p style="text-align: right;">Page 325</p> <p>1 BY MR. GOSS:  2 Q. What was that in connection with?  3 A. I transferred at Eli Lilly and  4 Company into the clinical and regulatory  5 area.  6 Q. And so you were in the clinical and  7 regulatory area at Eli Lilly?  8 A. Yes. As a medical information --  9 and my title was medical information  10 administrator.  11 Q. What did that entail?  12 A. A variety of -- a variety of roles,  13 if you will. I was responsible for working  14 pre-marketing and with data pre-marketing  15 and post-marketing. In some aspects, I  16 actually monitored clinical trials, meaning  17 that I would go out to the investigative  18 sites where the studies were being conducted  19 to make sure that the physicians and the  20 physician staff were conducting the study  21 according to the protocol, which is the  22 document that describes how a study should  23 be conducted and according to regulations as  24 well.  25 And I was responsible for</p>



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<p style="text-align: right;">Page 326</p> <p>1 collect -- to evaluating data and tabulating 2 data, both pre-marketing and post-marketing, 3 in particular adverse event data. 4 For example, I worked on the very 5 first recombinant DNA product ever to be 6 marketed, which was human insulin, and one 7 of my roles at Eli Lilly was involvement in 8 the collection of data once the product went 9 on the market, safety data in particular, to 10 present to FDA. 11 There are certain requirements, 12 regularly reporting of adverse event data 13 post-marketing of a new drug such as that. 14 Q. What experience have you obtained 15 over your 40-something years in the industry 16 with respect to labeling of product, drugs, 17 and devices? 18 A. Again, a variety of experience. In 19 terms of clinical trials, there's a document 20 called the Investigator's Brochure. It's 21 also been termed proto labeling. It's 22 basically for products prior to their 23 marketing, it is the document that provides 24 the same type of information that's included 25 in a package insert for a drug or in the</p>	<p style="text-align: right;">Page 328</p> <p>1 trials, through reports of complaints, 2 adverse events that are reported to the 3 company once the product is on the market as 4 well as in reviewing the medical and 5 scientific literature for reports of adverse 6 events. 7 So I've done that post-marketing, 8 and on the pre-marketing side in terms of 9 clinical trials, as I may have mentioned 10 earlier, constantly evaluating adverse 11 events that are being -- that are occurring 12 during clinical trials, assessing those, 13 very serious ones that are unexpected that 14 meet certain criteria, reporting those to 15 the FDA in a required time frame and 16 submitting them to doctors as well. 17 Q. Have you consulted with companies 18 with respect to regulatory matters? 19 A. Yes, frequently. 20 Q. Is that mostly with Symbion? 21 A. It's not only with Symbion. Prior 22 to that, while my roles were in clinical and 23 project management, within companies such as 24 Eli Lilly, Amgen, work is done -- all the 25 companies where I've worked, work is done as</p>
<p style="text-align: right;">Page 327</p> <p>1 context of a medical device and instructions 2 for use or directions for use, which we 3 refer to as an IFU or a DFU. 4 The purpose of that is to give the 5 physician the information that he or she 6 needs to be able to use the product safely 7 and effectively based on the known 8 information. 9 So I've prepared a number of those 10 Investigator's Brochures over my career, 11 written them in their entirety, and then 12 I've also been involved in the review and/or 13 development of IFUs, for example, for 14 medical devices. 15 Q. Have you been involved in safety 16 surveillance? 17 A. Yes. 18 Q. What is safety surveillance? 19 A. Safety surveillance -- are you 20 talking about post-marketing safety 21 surveillance in particular? 22 Q. Sure. 23 A. It is evaluating the safety data 24 that is available once a product goes on the 25 market through post-marketing clinical</p>	<p style="text-align: right;">Page 329</p> <p>1 a part of a project team, and I've been 2 involved in preparing many submissions to 3 the FDA, presenting -- prior to being at 4 Symbion, starting at Symbion, I've presented 5 to FDA on many occasions the proposed plan 6 for the studies that we were going to 7 conduct. 8 I've been involved in an advisory 9 committee meeting as well preparing the 10 information for that post-marketing. 11 Q. How many pharmaceutical and/or 12 device companies have you advised over your 13 40-plus years in the industry? 14 A. Over 80. 15 Q. Involving how many drugs or 16 devices? 17 A. Over 90. 18 Q. Do you have experience with 19 Class 1, Class 2, and Class 3 medical 20 devices? 21 A. Yes, I do. 22 Q. How did you obtain that experience? 23 A. The majority of that experience was 24 obtained after I started my own consulting 25 practice beginning in 1992 and then through</p>

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<p style="text-align: right;">Page 330</p> <p>1 Symbion as well.</p> <p>2 Q. Have you advised manufacturers with</p> <p>3 respect to the adequacy of their medical</p> <p>4 device labeling?</p> <p>5 A. Yes, I have.</p> <p>6 Q. Have you advised manufacturers with</p> <p>7 respect to whether or not they should</p> <p>8 perform clinical studies?</p> <p>9 A. Yes, I have.</p> <p>10 Q. And what types of studies to</p> <p>11 perform?</p> <p>12 A. Absolutely. I've designed the</p> <p>13 clinical studies on many occasions.</p> <p>14 Q. Did you, during this time period,</p> <p>15 gain expertise in the review and analyzing</p> <p>16 of medical literature?</p> <p>17 A. Yes.</p> <p>18 MS. SUTHERLAND: Objection.</p> <p>19 BY MR. GOSS:</p> <p>20 Q. When I use the term "medical</p> <p>21 literature," why don't you tell the jury</p> <p>22 what that means.</p> <p>23 A. Talking about publications that are</p> <p>24 in typically peer-reviewed journals where</p> <p>25 scientists, clinicians publish results of</p>	<p style="text-align: right;">Page 332</p> <p>1 Compassion -- of CompassioNow.</p> <p>2 Q. What is that?</p> <p>3 A. CompassioNow is a nonprofit</p> <p>4 organization. We have our 10th anniversary</p> <p>5 this year. It was started with the vision</p> <p>6 of providing medical care to the world's</p> <p>7 least served. We've been working in</p> <p>8 Sub-Saharan Africa, South Africa, Tazania,</p> <p>9 Zambia, for example, to provide support for</p> <p>10 nurses and doctors and help to educate local</p> <p>11 people so that they can help to run</p> <p>12 community clinics, providing medical</p> <p>13 supplies, both drugs and various equipment.</p> <p>14 There are people in these areas</p> <p>15 that have -- they don't even have Band-Aids.</p> <p>16 Q. I can tell you're proud of that</p> <p>17 work.</p> <p>18 A. I am. It's important. We have</p> <p>19 served a lot of people, and it's made a</p> <p>20 difference.</p> <p>21 Q. Do you now or have you served on</p> <p>22 the clinical trials certificate program</p> <p>23 advisory board?</p> <p>24 A. Yes. I did in the past.</p> <p>25 Q. What is that?</p>
<p style="text-align: right;">Page 331</p> <p>1 their research, both pre-clinical research,</p> <p>2 meaning testing that's not in humans, maybe</p> <p>3 laboratory research in in vitro, which is</p> <p>4 test tube, Petri-dish-type testing, benchtop</p> <p>5 testing, as well as testing in animals and</p> <p>6 also testing in humans.</p> <p>7 For a peer review, a draft</p> <p>8 publication is submitted to a journal, and a</p> <p>9 group of peers, if you will, who are</p> <p>10 experienced in the field that is covered by</p> <p>11 the specific publication, review the</p> <p>12 publication, typically will critique it and</p> <p>13 often will request revisions and decide</p> <p>14 whether or not that the publication -- that</p> <p>15 the data in the publication in the paper is</p> <p>16 worthy of publication.</p> <p>17 Q. Okay. Let's shift gears a little</p> <p>18 bit. I want you to -- I want to talk a</p> <p>19 little bit about your boards and</p> <p>20 memberships.</p> <p>21 Are there certain boards that you</p> <p>22 belong to?</p> <p>23 A. Yes, either now or in the past.</p> <p>24 Q. Right. What are those?</p> <p>25 A. I'm currently on the board of the</p>	<p style="text-align: right;">Page 333</p> <p>1 A. The intent of that advisory</p> <p>2 board -- it was run through the California</p> <p>3 State University system -- was to develop a</p> <p>4 certification program for people that were</p> <p>5 both students, usually graduate level</p> <p>6 students, or people already working in a</p> <p>7 related field that were interested in</p> <p>8 furthering their career and getting into</p> <p>9 clinical development.</p> <p>10 And it was intended to be a</p> <p>11 certification program to train them about</p> <p>12 how to do clinical trials.</p> <p>13 Q. You spoke a little bit about RAPS,</p> <p>14 which as I understand it, Regulatory Affairs</p> <p>15 Professional Society.</p> <p>16 A. Yes.</p> <p>17 Q. And you were a RAPS fellow; is that</p> <p>18 right?</p> <p>19 A. Yes.</p> <p>20 Q. What is a RAPS fellow?</p> <p>21 A. I'm very honored to be a RAPS</p> <p>22 fellow. Pardon me. A RAPS fellow is a</p> <p>23 peer-reviewed credential. RAPS fellows were</p> <p>24 first designated in 2008. A committee of</p> <p>25 peers who are senior level professionals who</p>

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<p style="text-align: right;">Page 334</p> <p>1 have met the highest level of regulatory 2 achievement review one's credentials, and 3 one must have a minimum of 15 years of 4 regulatory experience and then based on 5 one's management and leadership experience 6 and their contributions to the field of 7 regulatory affairs, the committee, which 8 I've actually served on also for several 9 years since becoming a RAPS fellow, makes a 10 determination as to whether or not one 11 qualifies to be a RAPS fellow. 12 There are, at this point in time as 13 of December 2015, 98. 14 Q. When did you become a RAPS fellow? 15 A. 2009. 16 Q. How many were there in 2009, 17 roughly? 18 A. 20 to 30 or fewer than 20. I don't 19 recall the specific number. 20 Q. And that's a Regulatory Affairs 21 Professional Society? 22 A. A fellow, yes. 23 Q. And that's for people that have a 24 particular expertise and have been 25 recognized for their abilities in regulatory</p>	<p style="text-align: right;">Page 336</p> <p>1 Q. What's the regulatory training 2 course faculty? 3 A. That, if I understand your 4 question, that, through the Drug Information 5 Association, in the past, I have taught in 6 that program. 7 Q. What is -- I see that you're RAC 8 certified. What is that? 9 A. That's regulatory affairs 10 certification. That is a certification that 11 is offered through the Regulatory Affairs 12 Professional Society. It is the -- again, 13 is a credential that -- this one in 14 particular is not a peer-reviewed 15 credential. 16 It's achieved by taking a test 17 that's been designed to test one's level of 18 regulatory expertise, and through the 19 testing, if you pass the test, you can 20 become regulatory affairs certified. And 21 once you become regulatory affairs 22 certified, every three years you're required 23 to submit continuing education and 24 leadership information to show that you're 25 active and still working in the top of your</p>
<p style="text-align: right;">Page 335</p> <p>1 affairs? 2 MS. SUTHERLAND: Objection. 3 Leading. 4 THE WITNESS: That's correct. 5 That's correct. One must have achieved 6 the highest level of achievement. 7 BY MR. GOSS: 8 Q. Let's talk a little bit about your 9 teaching experience. 10 First of all, do you have any 11 teaching experience? 12 A. I do. 13 Q. And what is your teaching 14 experience? 15 A. I've taught clinical trials and 16 project management in the clinical trial 17 certificate program that we talked about a 18 short while ago. I've also -- I also was 19 asked to develop and teach. So I'm 20 part-time faculty at the California State 21 University on the Channel Islands campus 22 teaching master's students who are getting 23 their master's degree in biotechnology, a 24 course entitled "Clinical Trials and Quality 25 Assurance."</p>	<p style="text-align: right;">Page 337</p> <p>1 field, if you will. 2 Q. Do you consider yourself a 3 regulatory affairs expert? 4 A. Yes, I do. 5 Q. Okay. In addition to all that, you 6 also work on cases like this? 7 A. Yes. 8 Q. Okay. Do you accept every case 9 that's presented to you? 10 A. No, I don't. 11 Q. Do you charge for your time just 12 like anybody else would? 13 A. I do. 14 Q. Charge for your time just like when 15 you consult with a manufacturer? 16 A. Correct. 17 Q. Have you testified before in a mesh 18 case? 19 A. Yes, I have. 20 Q. Have you been accepted by courts in 21 Texas as an expert in a mesh case? 22 MS. SUTHERLAND: Objection. 23 THE WITNESS: Yes, I have. 24 BY MR. GOSS: 25 Q. Okay. Let's move on to another</p>

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<p style="text-align: right;">Page 338</p> <p>1 area. I want to talk with you -- I kind of  2 want to get some definitions down so that  3 the jury kind of understands where we're  4 going with some things.  5 What is J&amp;J? J&amp;J is a term that  6 the jury is going to hear. What is J&amp;J?  7 A. Johnson &amp; Johnson.  8 Q. Okay. What does Johnson &amp; Johnson  9 do?  10 A. Johnson &amp; Johnson is a company that  11 develops a variety of products. Amongst  12 those products are medical devices as well  13 as pharmaceutical products through various  14 divisions of Johnson &amp; Johnson.  15 Q. What is Ethicon?  16 A. Ethicon is a division of Johnson &amp;  17 Johnson. In this case that we're talking  18 about today, it is the division or the part  19 of Johnson &amp; Johnson, if you will, that  20 manufactures and markets the pelvic mesh  21 products.  22 MS. SUTHERLAND: I'm going to  23 object to foundation just on the  24 response on J&amp;J as to what they do.  25 BY MR. GOSS:</p>	<p style="text-align: right;">Page 340</p> <p>1 BY MR. GOSS:  2 Q. What's stress urinary incontinence?  3 A. Stress urinary incontinence, you'll  4 probably hear me refer to it for short as  5 SUI, is involuntary leakage of urine with  6 coughing, for example, jumping, types of  7 exercise that cause intraabdominal pressure.  8 Q. Is stress urinary incontinence a  9 life-threatening condition?  10 A. No, it is not.  11 Q. We're going to talk today about the  12 TVT obturator system. What's the TVT  13 obturator system?  14 A. It's the tension-free vaginal mesh  15 that is a sling for the treatment of SUI,  16 and it -- tension-free vaginal tape,  17 sometimes the T is -- sometimes is referred  18 to as a tape instead of a sling.  19 And this particular, the obturator  20 means that it is -- that refers to the  21 insertion technique.  22 Q. Okay. Let's back up a little bit  23 on that. The jury is going to hear about  24 the TVT retropubic --  25 A. Yes.</p>
<p style="text-align: right;">Page 339</p> <p>1 Q. What is the FDA?  2 A. The United States Food and Drug  3 Administration. It is the agency within the  4 federal government that is responsible for  5 oversight of the public health in particular  6 with regard to a number of different  7 products. A large number of products that  8 we all deal with on a daily basis, including  9 not only medical devices and drugs, but  10 certain types of foods, cosmetics, tobacco,  11 veterinary products.  12 Q. The jury's heard about transvaginal  13 synthetic mesh slings.  14 A. Yes.  15 Q. Or mesh slings or slings.  16 What is that?  17 A. The transvaginal mesh sling, what  18 we're talking about here today, those slings  19 are made of a plastic, which is  20 polypropylene, for the treatment of stress  21 urinary incontinence.  22 Q. When we talk about polypropylene,  23 we're talking about plastic.  24 A. Yes.  25 MS. SUTHERLAND: Objection.</p>	<p style="text-align: right;">Page 341</p> <p>1 Q. -- and the TVT obturator.  2 A. Yes.  3 Q. Also known as the TVT-O.  4 A. Yes.  5 Q. What's the difference?  6 A. Okay. The tension-free vaginal  7 tape, TVT retropubic, it's the insertion  8 method. And the insertion method is  9 through -- well, it can be inserted two  10 ways.  11 The insertion begins in the vagina,  12 in the female vagina, and then it exits in  13 the lower abdomen. It can also be inserted  14 suprapubically so that the insertion begins in  15 the abdomen and then comes through the  16 vagina. So it fits under the urethra, if  17 you will, and the urethra is the tube that  18 leads from the bladder to the exit through  19 which one urinates.  20 Q. What's the TVT-O obturator or the  21 TVT-O?  22 A. The insertion route is -- it's an  23 inside-out technique. It starts in the  24 vagina, and instead of going up and the  25 exiting through the abdomen, lower abdomen,</p>

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<p style="text-align: right;">Page 342</p> <p>1 it exits in the thigh or the groin area  2 going through the obturator -- the obturator  3 membrane and the obturator muscle area.  4 Q. Which product was developed first  5 by Ethicon?  6 A. The TVT. The retropubic.  7 Q. And then did Ethicon develop the  8 TVT-O?  9 A. Yes.  10 Q. What's the IFU?  11 A. The IFU is short for instructions  12 for use. It is what we call professional  13 labeling. It is the cornerstone of risk  14 management because it is the document, the  15 primary communication between the  16 manufacturer of the product, in this case,  17 the TVT-O sling, and the surgeon who's going  18 to be using that product.  19 And it is intended to provide all  20 of the necessary information to enable the  21 physician to use that product safely and  22 effectively, to consult and advise the  23 patient with regard to the risk, potential  24 risk as well as the potential benefit of the  25 product so that together the patient and</p>	<p style="text-align: right;">Page 344</p> <p>1 of that code, is that human subjects must  2 be -- must be informed about any treatment  3 or any procedure that is going to be done to  4 them and consent. Certainly, that's true in  5 the context of research. It's also true in  6 the context of practice.  7 In fact, there's a position  8 statement from the American College of  9 Obstetrics and Gynecologists that talks  10 about the concept of respect for persons  11 which is essentially what informed consent  12 does. It's respect for persons in that the  13 individual is informed of all the potential  14 risks and benefits so that they have a right  15 to self-determination for their medical  16 care.  17 MS. SUTHERLAND: Objection.  18 Nonresponsive.  19 BY MR. GOSS:  20 Q. What role does the IFU play in the  21 concept of informed consent?  22 A. The IFU is the document that  23 provides the information about the product  24 including risks, potential risks, as well as  25 potential benefits, to the surgeon or the --</p>
<p style="text-align: right;">Page 343</p> <p>1 the -- the physician and the patient can  2 make a determination as to whether or not  3 this is the right product to be used for the  4 patient's treatment of SUI or should an  5 alternative procedure or treatment be used.  6 Q. What does IFU stand for?  7 A. Instructions for use.  8 Q. Okay. And does that come packaged  9 with the product?  10 A. Yes, it does.  11 Q. We'll be talking a little about the  12 concept of informed consent.  13 What is informed consent?  14 A. Informed consent has -- its --  15 current day, informed consent really has its  16 origins in the Nuremberg Code following the  17 second world war. The Nuremberg Code was  18 developed as a means of evaluating the  19 scientists and physicians who had  20 participated in experimentation on patients  21 in the -- in Germany during the second world  22 war, and that was the code that was then the  23 beginning of other codes which have been  24 developed.  25 And the key, the very first point</p>	<p style="text-align: right;">Page 345</p> <p>1 in this case, and that information in  2 consenting a patient as to whether or not,  3 in this case the TVT-O, would be used on a  4 particular patient.  5 That document provides the  6 information for the doctor to share that  7 with the patient, what the risks may be and  8 whether or not the patient makes a decision,  9 self-determination, as to whether or not  10 this is a procedure considering the risks  11 that she wants to undertake.  12 It also is intended to provide the  13 information that enables the physician, as I  14 mentioned earlier, to make a decision as to  15 whether or not -- because there are  16 alternative treatments available -- whether  17 or not this is the right treatment for a  18 particular patient.  19 Q. If the IFU is inadequate, what  20 effect does that have on informed consent?  21 MS. SUTHERLAND: Objection.  22 Speculative.  23 THE WITNESS: If it is  24 inadequate, then full -- particularly  25 with regard to complications and risks,</p>



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<p style="text-align: right;">Page 346</p> <p>1 then the patient cannot be truly --</p> <p>2 cannot provide true informed consent</p> <p>3 because information about risks is</p> <p>4 missing.</p> <p>5 BY MR. GOSS:</p> <p>6 Q. Does that have an effect on public</p> <p>7 safety?</p> <p>8 MS. SUTHERLAND: Objection.</p> <p>9 THE WITNESS: Yes, it does.</p> <p>10 ///</p> <p>11 BY MR. GOSS:</p> <p>12 Q. Okay. Let me move on to another</p> <p>13 topic.</p> <p>14 When you were retained in this</p> <p>15 case, did you conduct an investigation into</p> <p>16 Ethicon's practices?</p> <p>17 A. Yes, I did.</p> <p>18 Q. And what did you do to conduct that</p> <p>19 investigation?</p> <p>20 A. I reviewed a large volume of</p> <p>21 materials, which included deposition</p> <p>22 testimony of a large number of Ethicon</p> <p>23 employees. I also evaluated documentation</p> <p>24 that's been produced in this litigation. I</p> <p>25 reviewed scientific and medical literature.</p>	<p style="text-align: right;">Page 348</p> <p>1 Q. Okay. In the hundreds of</p> <p>2 thousands?</p> <p>3 MS. SUTHERLAND: Objection.</p> <p>4 Leading.</p> <p>5 THE WITNESS: Very well may be.</p> <p>6 BY MR. GOSS:</p> <p>7 Q. Okay. Did you review testimony of</p> <p>8 Ethicon witnesses?</p> <p>9 A. Yes.</p> <p>10 Q. Did you review trial testimony?</p> <p>11 A. Yes, I did.</p> <p>12 Q. Did you review deposition</p> <p>13 testimony?</p> <p>14 A. Yes.</p> <p>15 Q. Testimony like you're giving today?</p> <p>16 A. That's correct.</p> <p>17 Q. What areas of Ethicon were -- these</p> <p>18 employees that were giving their deposition,</p> <p>19 what areas were they in?</p> <p>20 A. A variety of areas. I mentioned</p> <p>21 earlier that companies like Ethicon have a</p> <p>22 product project team, and there are</p> <p>23 different groups that have different</p> <p>24 expertises that contribute to the</p> <p>25 development of a project.</p>
<p style="text-align: right;">Page 347</p> <p>1 I also evaluated the -- what's called the</p> <p>2 MAUDE, a manufacturing user facility device</p> <p>3 experience database, which is a publicly</p> <p>4 available database of what are called</p> <p>5 medical device reports, serious adverse</p> <p>6 events, and malfunctions that could result</p> <p>7 in serious adverse events that FDA</p> <p>8 maintained.</p> <p>9 I reviewed guidances and</p> <p>10 regulations that are applicable to the</p> <p>11 product. That is an overview. Website --</p> <p>12 various websites that are relevant.</p> <p>13 Q. Were some of the internal documents</p> <p>14 that you reviewed of Ethicon's, were some of</p> <p>15 those confidential documents?</p> <p>16 MS. SUTHERLAND: Objection.</p> <p>17 THE WITNESS: Yes.</p> <p>18 BY MR. GOSS:</p> <p>19 Q. Were they marked confidential?</p> <p>20 MS. SUTHERLAND: Objection.</p> <p>21 THE WITNESS: Yes.</p> <p>22 BY MR. GOSS:</p> <p>23 Q. How many documents do you think you</p> <p>24 reviewed?</p> <p>25 A. Many thousands.</p>	<p style="text-align: right;">Page 349</p> <p>1 So I have -- the various expertises</p> <p>2 that would contribute to the development of</p> <p>3 a project, I've reviewed depositions from</p> <p>4 people in those different areas which</p> <p>5 include clinical and medical affairs,</p> <p>6 pre-clinical, engineers, regulatory as well,</p> <p>7 senior executives. It would also include</p> <p>8 quality assurance. Quality.</p> <p>9 Q. I'll hand you what's been marked as</p> <p>10 Exhibit 15.</p> <p>11 (Exhibit Number 15 was</p> <p>12 marked for identification.)</p> <p>13 BY MR. GOSS:</p> <p>14 Q. This is a slide that I prepared</p> <p>15 based upon your report and information that</p> <p>16 you provided to me.</p> <p>17 Is this a summary -- first of all,</p> <p>18 have you seen this slide before?</p> <p>19 A. Yes, or one similar, yes.</p> <p>20 Q. Okay. And will this assist you in</p> <p>21 your testimony in explaining to the jury the</p> <p>22 types of depositions and trial testimony</p> <p>23 you've reviewed?</p> <p>24 A. Yes.</p> <p>25 Q. Okay. And is this a list of some</p>

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<p style="text-align: right;">Page 350</p> <p>1 of the witnesses whose trial testimony and 2 deposition you have reviewed? 3 A. Yes, it is. 4 Q. Does that refresh some of your 5 recollection as to what areas some of them 6 are in? 7 A. Yes. There are people in 8 pre-clinical research, as I mentioned, as 9 well as quality and medical affairs and 10 regulatory affairs and marketing. I think I 11 had not mentioned marketing before. Medical 12 directors. I've also reviewed professional 13 education. 14 Q. Let me ask you this -- 15 A. Oh. People reporting adverse 16 events and reviewing adverse events. 17 Q. Did you also review medical 18 literature? 19 A. Yes. 20 Q. Okay. What types of medical 21 literature were available to you? 22 A. The scope of medical literature 23 that's available publicly. 24 Q. Okay. And did you review 25 peer-reviewed medical literature?</p>	<p style="text-align: right;">Page 352</p> <p>1 industry standards with respect to the 2 development and marketing of the TVT-O? 3 A. Yes. 4 MS. SUTHERLAND: Objection. 5 BY MR. GOSS: 6 Q. And did you endeavor to do that 7 review? 8 A. Yes, I did. 9 Q. How many hours do you think that 10 you spent conducting your investigation? 11 A. Hundreds of hours if you include 12 not just specific for Ms. Ramirez's case but 13 overall for the development of TVT and 14 TVT-O. Hundreds of hours. 15 Q. In your review of that information 16 and the information that we've talked about 17 so far, did you apply the same methodology 18 in the review of that information that you 19 applied in your everyday work in consulting 20 with other manufacturers and advising them? 21 A. Yes. In this case, I actually had 22 more information in the context of 23 deposition testimony. When I'm working with 24 companies, I interview the people that I'm 25 working with, but in this context, I had</p>
<p style="text-align: right;">Page 351</p> <p>1 A. Yes. 2 Q. And explain to the jury what 3 peer-reviewed medical literature is. 4 A. Peer-reviewed is the process that 5 means that a publication prior to being 6 accepted for publication is -- someone 7 wishing to publish a paper submits it to an 8 appropriate journal that publishes the type 9 of data that the research that's in that -- 10 that's in a particular paper addresses, and 11 the journal has people who are experienced 12 in that field who review the paper and look 13 at it and critique it and provide feedback 14 to the authors of the publication. 15 And many times they'll ask 16 questions and have revisions made to the 17 paper prior to its publication, or sometimes 18 if they don't feel that the information in 19 the proposed publication meets the 20 qualifications of the journal or deserves to 21 be published, they'll deny publication. 22 Q. Did I retain you -- did my firm 23 retain you on behalf of Ms. Ramirez to look 24 at the conduct of Ethicon and determine 25 whether or not that conduct complied with</p>	<p style="text-align: right;">Page 353</p> <p>1 enough numerous depositions that I could 2 review that also provided insight to what 3 happened. 4 Q. You've talked a little bit about 5 some standards in the industry. You spoke 6 this morning about the GHTF principles. 7 What's GHTF? 8 A. Global Harmonization Task Force. 9 Q. We'll talk a little bit about that 10 later. 11 You spoke about the Blue Book? 12 A. Yes. 13 Q. What is that? 14 A. If I understand your question, the 15 specific Blue Book memorandum that you're 16 talking about is a particular FDA guidance 17 document that -- for medical device labeling 18 that sets the standards for medical device 19 labeling. 20 Q. In your review and in forming your 21 opinions, did you apply some of those 22 standards to the things that your 23 investigation uncovered? 24 A. Absolutely. 25 Q. Okay. Let me shift gears a little</p>

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<p style="text-align: right;">Page 354</p> <p>1 bit more. I want to talk to you about  2 safety principles. I'm going to hand you  3 some slides. I'm going to hand you what I  4 have marked as Exhibit 16.  5 (Exhibit Number 16 was  6 marked for identification.)  7 BY MR. GOSS:  8 Q. Are these some slides that you  9 assisted me in preparing?  10 A. Yes.  11 Q. And do you recognize those slides?  12 A. Yes, I do.  13 Q. Okay. Let's talk about the first  14 safety principle. When we say "safety  15 principle," what do we mean?  16 MS. SUTHERLAND: Objection.  17 THE WITNESS: That a product is  18 safe for use, that there's a favorable  19 benefit-to-risk ratio.  20 BY MR. GOSS:  21 Q. Well, is a safety principle  22 something that a manufacturer should seek to  23 comply with?  24 MS. SUTHERLAND: Objection.  25 THE WITNESS: Absolutely.</p>	<p style="text-align: right;">Page 356</p> <p>1 must choose the safest product."  2 Is that a principle that is  3 supported by the Global Harmonization Task  4 Force standards?  5 MS. SUTHERLAND: Objection.  6 THE WITNESS: All other things  7 considered equal, yes.  8 BY MR. GOSS:  9 Q. And the fourth safety principle.  10 "Safety of patients has to be the number one  11 priority, not corporate profits."  12 Is that a safety principle  13 supported by the Global Harmonization Task  14 Force?  15 MS. SUTHERLAND: Objection.  16 THE WITNESS: Yes. Patient  17 safety is always number one.  18 BY MR. GOSS:  19 Q. Is that a principle that is -- also  20 one that is supported by the credo of J&amp;J  21 and Ethicon?  22 A. Yes, that is correct.  23 Q. When you investigated Ethicon --  24 when you investigated Ethicon, did you find  25 a document that was a Johnson &amp; Johnson</p>
<p style="text-align: right;">Page 355</p> <p>1 BY MR. GOSS:  2 Q. Let's talk about the first safety  3 principle. "A corporation is required to  4 make sure its products are reasonably safe."  5 Is that a standard in the industry?  6 A. Yes, it is.  7 Q. Okay. And is that a standard in  8 the industry that is set forth in the Global  9 Harmonization Task Force documents?  10 A. Yes, it is.  11 Q. Okay. The second safety principle,  12 "A corporation must investigate warning  13 signs that its products may be dangerous and  14 make sure that any problems with the product  15 are fixed in a safe manner."  16 Is that a safety principle that  17 also has support in the Global Harmonization  18 Task Force documents?  19 A. Yes, that's correct.  20 MS. SUTHERLAND: Objection.  21 BY MR. GOSS:  22 Q. Let's talk about the third safety  23 principle. "If a corporation has two  24 products that treat the same condition, and  25 one is safer for patients, the corporation</p>	<p style="text-align: right;">Page 357</p> <p>1 credo?  2 A. Yes, I did.  3 This was attached to the back of  4 these. Was it intended to be?  5 Q. I'm handing you what's been marked  6 as Exhibit 17.  7 (Exhibit Number 17 was  8 marked for identification.)  9 BY MR. GOSS:  10 Q. And what is this document?  11 A. This is the Johnson &amp; Johnson  12 credo.  13 Q. And are you familiar with this  14 document?  15 A. Yes, I am.  16 Q. Let's talk a little bit about it.  17 First of all, do you support this credo?  18 A. Yes, I do.  19 Q. Think it's a good idea?  20 A. It is a good credo.  21 Q. It says, at the beginning, "We  22 believe our first responsibility is to the  23 doctors, nurses, and patients, to mothers  24 and fathers and all others who use our  25 products and services."</p>

90 (Pages 354 to 357)

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<p style="text-align: right;">Page 358</p> <p>1 Is that consistent with the safety 2 principles we just discussed? 3 MS. SUTHERLAND: Objection. 4 THE WITNESS: Yes, it is. 5 BY MR. GOSS: 6 Q. In your investigation, did you find 7 that Johnson &amp; Johnson lived up or Ethicon 8 lived up to this credo? 9 MS. SUTHERLAND: Objection. 10 THE WITNESS: I found that they 11 did not live up to this credo. 12 BY MR. GOSS: 13 Q. With respect to their development 14 in marketing of the TVT-O? 15 MS. SUTHERLAND: Objection. 16 THE WITNESS: That is correct. 17 BY MR. GOSS: 18 Q. Okay. You've talked a little bit 19 about the label. Who is responsible for 20 making sure that the label is accurate? 21 A. The primary responsibility is that 22 of the manufacturer. 23 Q. And I've heard the concept called 24 "owning the label." What's that mean? 25 A. That the manufacturer -- it is</p>	<p style="text-align: right;">Page 360</p> <p>1 standard of care? 2 A. Yes. 3 MS. SUTHERLAND: Objection. 4 BY MR. GOSS: 5 Q. In your investigation of Ethicon's 6 files in review of discovery in this case 7 and all the things that we've just discussed 8 that you reviewed in applying the standard 9 of care and the documents reflecting the 10 standard of care, did you reach an opinion 11 regarding whether Ethicon violated the 12 standard of care in its marketing of the 13 MCM, TVT obturator system? 14 MS. SUTHERLAND: Objection. 15 THE WITNESS: Yes, I did. 16 BY MR. GOSS: 17 Q. And what is that opinion? 18 A. They violated the standard of care 19 in several ways. 20 Q. Did you reach an opinion whether 21 Ethicon violated the standard of care by 22 failing to conduct appropriate testing to 23 support the safe and effective use of the 24 TVT obturator system? 25 MS. SUTHERLAND: Objection.</p>
<p style="text-align: right;">Page 359</p> <p>1 their product. The manufacturer owns the 2 label. It is a component of the product, in 3 this case, the TVT-O. And owning the TVT-O, 4 the company, Ethicon, also owns the label, 5 meaning that it is responsible for making 6 sure that that professional labeling is -- 7 any type of labeling that is associated with 8 its product is truthful and accurate and 9 complete and not misleading. 10 Q. The buck stops with the 11 manufacturer? 12 MS. SUTHERLAND: Objection. 13 THE WITNESS: That's correct. 14 BY MR. GOSS: 15 Q. The safety principles that we've 16 talked about, are those safety principles 17 part of the standard of care for a 18 manufacturer? 19 MS. SUTHERLAND: Objection. 20 THE WITNESS: Yes, they are. 21 BY MR. GOSS: 22 Q. Would you consider the credo that 23 putting patients first, first responsibility 24 to patients, the credo adopted by this 25 company, would you consider that the</p>	<p style="text-align: right;">Page 361</p> <p>1 THE WITNESS: Yes. 2 BY MR. GOSS: 3 Q. What is that opinion? 4 MS. SUTHERLAND: Same 5 objection. 6 THE WITNESS: They failed to 7 act according to the standard of care. 8 BY MR. GOSS: 9 Q. Did you reach an opinion whether 10 the labeling for the TVT obturator system 11 was inadequate? 12 A. Yes, I did. 13 Q. Due to failure to warn? 14 A. Yes. 15 Q. What's that opinion? 16 MS. SUTHERLAND: Objection. 17 THE WITNESS: The labeling was 18 inadequate. 19 BY MR. GOSS: 20 Q. Did you reach an opinion as to 21 whether the label was false or misleading? 22 A. Yes, I did. 23 Q. What is that opinion? 24 MS. SUTHERLAND: Objection. 25 THE WITNESS: The labeling was</p>

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<p style="text-align: right;">Page 362</p> <p>1 false and misleading.  2 BY MR. GOSS:  3 Q. Did you reach an opinion as to  4 whether Ethicon failed to meet the  5 post-market vigilant standard of care in  6 management of risk?  7 A. Yes, I did.  8 Q. What is that opinion?  9 MS. SUTHERLAND: Objection.  10 THE WITNESS: They failed to  11 meet the post-market vigilant standard  12 of care and manage risk appropriately.  13 BY MR. GOSS:  14 Q. You have prepared a report in this  15 case?  16 A. Yes.  17 Q. Did you prepare a supplemental  18 report as well?  19 A. Yes, I did.  20 MR. GOSS: Did we mark those  21 already?  22 MS. SUTHERLAND: Yeah.  23 THE WITNESS: I'm not sure  24 Exhibit 2 to the March supplemental  25 report was marked.</p>	<p style="text-align: right;">Page 364</p> <p>1 THE REPORTER: Excuse me. Did  2 you say Exhibit 21?  3 MR. GOSS: You know what? I'm  4 sorry. I grabbed the wrong one. I'm  5 going to re-mark Exhibit 21 as  6 Exhibit 18.  7 (Exhibit Number 18 was  8 marked for identification.)  9 BY MR. GOSS:  10 Q. Again, is Exhibit 18 the Exhibit 2  11 you just referenced?  12 A. Yes, it is.  13 Q. Okay. All the opinions that you've  14 given today and that you are going to give  15 today, have they all been held to a  16 reasonable degree of scientific or  17 professional certainty?  18 A. Yes, they have.  19 Q. We've talked a little bit about the  20 TVT-O. What was it designed to treat?  21 A. Stress urinary incontinence.  22 Q. When did it come on the market?  23 A. The very end of 2003, early 2004.  24 Q. And was the TVT retropubic already  25 on the market?</p>
<p style="text-align: right;">Page 363</p> <p>1 BY MR. GOSS:  2 Q. Is Exhibit 4 the supplemental  3 report that you prepared in this case?  4 Pence Exhibit 4.  5 A. Yes.  6 Q. And did that Pence Exhibit 4  7 supplement Pence Exhibit 3?  8 A. Yes.  9 Q. And is Exhibit 6 also a part of  10 your report, a supplemental report?  11 A. Yes. It's March of this year. A  12 supplemental report. And Exhibit 6 is just  13 the body of the report without the exhibits.  14 Q. And what is Exhibit 7?  15 A. Exhibit 7 is Exhibit 1, applicable  16 industry standards, to the March, 2016,  17 supplemental report which was Exhibit 6.  18 There is an Exhibit 2, which we have not  19 marked.  20 Q. Okay. I'm going to hand you what's  21 been marked as Exhibit 21.  22 Is this the Exhibit 2 that you just  23 referenced?  24 A. Yes.  25 Q. Okay.</p>	<p style="text-align: right;">Page 365</p> <p>1 A. Yes.  2 Q. Do you recall how long it had been  3 on the market?  4 A. Since 1998.  5 Q. What type of mesh is used in the  6 TVT-O?  7 A. Polypropylene mesh.  8 Q. There's going to be some discussion  9 today about MCM-cut mesh.  10 By the way, is Prolene mesh in the  11 TVT-O?  12 A. Yes. It's Prolene polypropylene  13 mesh.  14 Q. Okay. And there's going to be --  15 there's been some discussion, and we're  16 going to have some more discussion about the  17 manner in which the Prolene mesh was cut by  18 Ethicon, and we'll discuss what's called  19 MCM.  20 Do you know what that is?  21 A. Yes, I do.  22 Q. What is that?  23 A. Mechanically cut mesh.  24 Q. Okay. And then there's going to be  25 a discussion of LCM.</p>



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<p style="text-align: right;">Page 366</p> <p>1 Do you know what that is?</p> <p>2 A. Yes.</p> <p>3 Q. What is that?</p> <p>4 A. Laser-cut mesh.</p> <p>5 Q. Are they two different methods of</p> <p>6 cutting?</p> <p>7 A. Yes.</p> <p>8 Q. Okay. Do you know what type of</p> <p>9 TVT-O mesh was implanted in Jennifer Ramirez</p> <p>10 on September 17, 2010?</p> <p>11 A. Yes, I do.</p> <p>12 Q. What was it?</p> <p>13 A. A mechanically cut mesh.</p> <p>14 Q. And it was a TVT-O?</p> <p>15 A. That's correct.</p> <p>16 Q. Okay. I'm going to hand you what's</p> <p>17 been marked as Exhibit 19.</p> <p>18 (Exhibit Number 19 was</p> <p>19 marked for identification.)</p> <p>20 BY MR. GOSS:</p> <p>21 Q. What is that document?</p> <p>22 A. This is a document that has a</p> <p>23 sticker from the TVT-O device that was</p> <p>24 implanted in Ms. Ramirez. The document is a</p> <p>25 Baptist Health System document dated 9/17/10</p>	<p style="text-align: right;">Page 368</p> <p>1 A. Yes.</p> <p>2 Q. And what was that reason?</p> <p>3 MS. SUTHERLAND: Objection.</p> <p>4 THE WITNESS: The idea was to</p> <p>5 reduce the numbers of bladder</p> <p>6 perforations that were occurring.</p> <p>7 BY MR. GOSS:</p> <p>8 Q. What was happening in the market?</p> <p>9 MS. SUTHERLAND: Objection.</p> <p>10 THE WITNESS: What was</p> <p>11 happening in the market with the TVT-O</p> <p>12 was Ethicon had enjoyed about five years</p> <p>13 of the market for stress urinary</p> <p>14 incontinence slings, and competitors</p> <p>15 were coming on the market, and in</p> <p>16 particular, a couple of other companies</p> <p>17 had marketed devices with an obturator</p> <p>18 approach, and that was hoped that it</p> <p>19 would be safer than the retropubic</p> <p>20 approach because of the numbers of</p> <p>21 bladder perforations in particular that</p> <p>22 can occur and have occurred with the</p> <p>23 retropubic approach.</p> <p>24 And so in order to retain and</p> <p>25 not lose market share, the company</p>
<p style="text-align: right;">Page 367</p> <p>1 showing the surgeon's name, Dr. C. Reyes --</p> <p>2 or C. Reyes, implant location, vagina.</p> <p>3 Q. Is this one of the documents you</p> <p>4 relied upon in determining whether or not</p> <p>5 she was implanted with a mechanically cut</p> <p>6 mesh?</p> <p>7 A. Yes.</p> <p>8 Q. And how can you tell by looking at</p> <p>9 this document that it was mechanically cut?</p> <p>10 A. The number that's on the sticker</p> <p>11 from the mesh that was implanted, 810081,</p> <p>12 does not have an L at the end, and when it's</p> <p>13 laser-cut mesh, an L is included at the end</p> <p>14 of that series of numbers.</p> <p>15 Q. How did you learn that?</p> <p>16 A. Through review of the Ethicon</p> <p>17 documentation.</p> <p>18 Q. In conducting your investigation</p> <p>19 into Ethicon's internal documents, were you</p> <p>20 able to determine the reason Ethicon</p> <p>21 developed the TVT-O?</p> <p>22 MS. SUTHERLAND: Objection.</p> <p>23 THE WITNESS: The TVT-O?</p> <p>24 BY MR. GOSS:</p> <p>25 Q. Yes.</p>	<p style="text-align: right;">Page 369</p> <p>1 decided that they needed to enter the</p> <p>2 competitive market space with an</p> <p>3 obturator approach.</p> <p>4 BY MR. GOSS:</p> <p>5 Q. Okay. Let's back it up a little</p> <p>6 bit and let me get some clarification. You</p> <p>7 said that they had been a market leader for</p> <p>8 five years.</p> <p>9 With respect to what product?</p> <p>10 A. The TVT retropubic.</p> <p>11 Q. Not the O?</p> <p>12 A. That's correct.</p> <p>13 Q. Okay. And were competitors</p> <p>14 entering the market?</p> <p>15 A. Yes.</p> <p>16 Q. Did you see any documents that</p> <p>17 reflected that Ethicon was concerned about</p> <p>18 the competitors entering the market?</p> <p>19 A. Yes, I did.</p> <p>20 MS. SUTHERLAND: Objection.</p> <p>21 BY MR. GOSS:</p> <p>22 Q. I'm handing you what's been marked</p> <p>23 as Exhibit 20.</p> <p>24 (Exhibit Number 20 was</p> <p>25 marked for identification.)</p>

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<p style="text-align: right;">Page 370</p> <p>1 BY MR. GOSS:  2 Q. Is that a document that you  3 discovered in Ethicon's files?  4 MS. SUTHERLAND: Objection.  5 THE WITNESS: Yes.  6 BY MR. GOSS:  7 Q. And is this a document that you  8 relied upon in forming your opinions in this  9 case?  10 A. Yes.  11 Q. And what's the date of this  12 document?  13 A. 14 February, 2003.  14 Q. And the document's regarding  15 Project Mulberry.  16 What is that?  17 A. Project Mulberry was the project  18 name given to the development of TVT-O.  19 Q. And let's just start with the  20 executive summary and the strategic  21 rationale. Is there anything under  22 strategic rationale with respect to this  23 document that you found important in your  24 opinions today?  25 A. Yes.</p>	<p style="text-align: right;">Page 372</p> <p>1 you've seen in this document where it  2 reflects that their concern was trying to  3 develop a better product for their patients?  4 MS. SUTHERLAND: Objection.  5 MR. GOSS: Let me re-ask that.  6 BY MR. GOSS:  7 Q. Under this strategic rationale,  8 does it discuss how much they thought they  9 would lose if they -- if things continued as  10 they were with the TVT franchise?  11 MS. SUTHERLAND: Objection.  12 THE WITNESS: Yes, it does.  13 BY MR. GOSS:  14 Q. What was that?  15 A. It was \$8 million, if I recall  16 correctly, yes.  17 Q. Under the financial summary, does  18 it reflect how much they thought they could  19 profit if they launched a product like the  20 TVT-O?  21 MS. SUTHERLAND: Objection.  22 THE WITNESS: Yes, it does.  23 BY MR. GOSS:  24 Q. What did they project as year of  25 sales of TVT-O?</p>
<p style="text-align: right;">Page 371</p> <p>1 Q. What's that?  2 A. The rationale that we were just  3 discussing for development of the TVT-O  4 being competitive pressure.  5 Q. It says, "The rationale for Project  6 Mulberry is to drive and defend Gynecare  7 sales of TVT, hereafter referred to as TVT."  8 And, again, Project Mulberry is the  9 TVT-O?  10 A. That's correct.  11 Q. And it goes on to say, "TVT is  12 under competitive pressure, as evidenced by  13 a decline in category share of revenue of  14 15 percent in Europe and the U.S., over the  15 last two years. The competition comes from  16 "me-too" versions of TVT."  17 Did you find that important?  18 A. Yes.  19 Q. Why?  20 MS. SUTHERLAND: Objection.  21 THE WITNESS: That was a key  22 rationale to the development of the  23 TVT-O. It was to preserve market share.  24 BY MR. GOSS:  25 Q. Okay. Is there anything that</p>	<p style="text-align: right;">Page 373</p> <p>1 MS. SUTHERLAND: Objection.  2 THE WITNESS: I'm sorry?  3 BY MR. GOSS:  4 Q. By 2010, were they projecting  5 sales?  6 A. Yes.  7 Q. Of how much?  8 A. Peak year sales of the  9 transobturator products exceeding  10 \$34 million, of which 60 percent would be  11 incremental over the current TVT sales  12 projections.  13 Q. Okay. So to summarize this, is it  14 fair to summarize this first page of this  15 document to be that Ethicon reflects it was  16 concerned about losing market share?  17 A. Yes.  18 MS. SUTHERLAND: Objection.  19 BY MR. GOSS:  20 Q. It was concerned that it was going  21 to have lost profit of \$8 million?  22 MS. SUTHERLAND: Objection.  23 THE WITNESS: Correct.  24 BY MR. GOSS:  25 Q. But if they could develop a TVT-O,</p>

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<p style="text-align: right;">Page 374</p> <p>1 they could have products sales exceeding 2 34 million by 2010? 3 MS. SUTHERLAND: Objection. 4 THE WITNESS: Correct. 5 BY MR. GOSS: 6 Q. Okay. Let's go to the second page. 7 I'm going to ask you about the first line of 8 that second page. It says, "The assumptions 9 used to make product sales forecasts are as 10 follows: U.S. assumes introduction of 11 Mulberry in quarter 1 2005 after six months 12 of clinical data is available." 13 What does that mean? 14 MS. SUTHERLAND: Objection. 15 THE WITNESS: That means at the 16 time this document was prepared in 17 February of 2003, that the company 18 intended to introduce TVT-O once they 19 had six months of clinical testing data 20 available. 21 BY MR. GOSS: 22 Q. Is that a good thing? 23 MS. SUTHERLAND: Objection. 24 THE WITNESS: That's a good 25 thing, yes.</p>	<p style="text-align: right;">Page 376</p> <p>1 The document speaks for itself. 2 THE WITNESS: Three things. 3 That it's a new procedure. Secondly, 4 the obturator bundle because, again, if 5 I might explain that, the insertion 6 route is a different route, and in the 7 obturator bundle, they're the obturator 8 nerve and obturator vessels which, if 9 those are perforated, could cause 10 issues, safety issues, for the patient, 11 present potential risks. 12 And the third is future, as 13 they term it, radical developments, for 14 example, needle-less TVT and growth 15 factors. 16 BY MR. GOSS: 17 Q. So in 2003, just so I'm clear, is 18 Ethicon evaluating already under risk 19 assessment, clinical issues and risks with 20 the obturator bundle? 21 MS. SUTHERLAND: Objection. 22 THE WITNESS: Yes. 23 BY MR. GOSS: 24 Q. Do you find that important? 25 A. Yes.</p>
<p style="text-align: right;">Page 375</p> <p>1 BY MR. GOSS: 2 Q. Is that what you would expect a 3 company -- I'm sorry. 4 Is that what you would expect a 5 design -- a device company -- let me start 6 over. 7 Is that what you would expect a 8 device manufacturer to do? 9 A. Absolutely. 10 Q. To conduct six months clinical 11 data? 12 A. Minimally six months. 13 Q. Okay. We'll get to this a little 14 bit later. Did they do that? 15 A. No, they did not. Not beyond what 16 the inventor of the product had already done 17 with the prototype. 18 Q. Let's go to the Bates number on 19 that exhibit that is -- it's page 7. Bates 20 number ends at 53. 21 Do you see "Risk Assessment"? 22 A. Yes. 23 Q. Under "Clinical," what does it have 24 as risk assessments? 25 MS. SUTHERLAND: Objection.</p>	<p style="text-align: right;">Page 377</p> <p>1 Q. Why? 2 A. Because those risks in order -- it 3 goes back to what I may have talked about 4 already today that before marketing a 5 product, one needs to do a benefit/risk 6 assessment to assure that there's a 7 favorable benefit/risk ratio, and that 8 includes an assessment of potential risks, 9 and the way you assess that risk is through 10 clinical testing. 11 Q. Did -- in your investigation of the 12 files of Ethicon, did you see anywhere where 13 they -- where it upset -- where it assessed 14 the risk of obturator bundle injury prior to 15 launching this product? 16 A. No. Certainly not in clinical 17 testing. 18 Q. Would a reasonable and prudent 19 manufacturer have done that assessment? 20 MS. SUTHERLAND: Objection. 21 THE WITNESS: Yes. 22 (Exhibit Number 21 was 23 marked for identification.) 24 BY MR. GOSS: 25 Q. I'm going to hand you what's been</p>

95 (Pages 374 to 377)

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<p style="text-align: right;">Page 378</p> <p>1 marked as Pence Exhibit 21. And is this a  2 document that you reviewed -- first of all,  3 did you find this in Ethicon's files?  4 MS. SUTHERLAND: Objection.  5 THE WITNESS: Yes.  6 BY MR. GOSS:  7 Q. Is this a document that you  8 reviewed and relied upon in coming up with  9 your opinions in this case?  10 A. Yes, it is.  11 Q. Is this document dated April 14,  12 2003?  13 A. Yes, it is.  14 Q. Is this an Ethicon document?  15 A. Yes.  16 Q. Came out of their files?  17 MS. SUTHERLAND: Objection.  18 THE WITNESS: That's correct.  19 BY MR. GOSS:  20 Q. Is Brian -- I believe Brian  21 Luscombe, is he the U.S. products director?  22 A. Yes. To the best of my  23 recollection, that is correct.  24 Q. And he's on this email string.  25 This is a long email string; right?</p>	<p style="text-align: right;">Page 380</p> <p>1 Again, what's Mulberry?  2 A. That's the project name for the  3 TVT-O.  4 Q. "Can you please clarify whether or  5 not post-market introduction studies are  6 acceptable or not? If we only have ex-U.S.  7 data, won't this limit us? Brian."  8 Was this document -- was that email  9 important for your opinions?  10 MS. SUTHERLAND: Objection.  11 The document speaks for itself.  12 THE WITNESS: Yes.  13 BY MR. GOSS:  14 Q. Why?  15 A. Because as the risk assessment  16 noted in the document we just reviewed,  17 Exhibit 20, the -- there are risks with a  18 new procedure, risks with the obturator  19 approach, particularly with regard to the  20 obturator bundle, and clinical testing in  21 February of 2003 was intended to be done.  22 And in this document, we learn two  23 months later, almost two months later to the  24 date, that the Gynecare board had made the  25 decisions -- the decision that clinicals</p>
<p style="text-align: right;">Page 379</p> <p>1 A. Yes, it is.  2 Q. As I understand, the way that you  3 read these documents out of their files that  4 are email strings is you start from the back  5 and work your way forward; is that correct?  6 A. Correct.  7 Q. So let's do that. So start at the  8 bottom of the second page that has Bates  9 number 94 at the end.  10 Do you know where I am?  11 A. I am there too.  12 Q. Okay. And this is an email from  13 Brian Luscombe to Cheryl Bogardus. I  14 believe -- do you recognize she is worldwide  15 marketing director?  16 A. Yes. That's my recollection as  17 well.  18 Q. And Brian Luscombe, I believe, he  19 was U.S. product director; is that right?  20 A. Yes. To the best of my  21 recollection, that's correct.  22 Q. It says, "Cheryl, I understand that  23 the Gynecare board made the decision that  24 clinicals will not be required for  25 Mulberry."</p>	<p style="text-align: right;">Page 381</p> <p>1 would not be done, which means that these  2 risks would not be assessed in human testing  3 prior to marketing.  4 Q. Is that decision by the Gynecare  5 board in violation of standards in the  6 industry?  7 MS. SUTHERLAND: Objection.  8 THE WITNESS: Yes.  9 BY MR. GOSS:  10 Q. Why is that?  11 A. Once again, one has to ensure the  12 safety and effectiveness of one's product,  13 and in order to do that, one has to do a  14 clinical evaluation of data that's available  15 and based on the data that's available, make  16 a determination as to whether or not there's  17 a favorable benefit to risk for use of this  18 device.  19 And if one does not have that data,  20 then that's a violation of we refer to as  21 the essential principles of safety as well  22 as performance, and in order to get the type  23 of information necessary, they needed to do  24 clinical testing.  25 Q. Okay. Let's talk about the email</p>

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<p style="text-align: right;">Page 382</p> <p>1 right following this one.  2 A. Okay.  3 Q. Okay. So to set the stage -- to  4 set the stage, we know two months ago there  5 was a projection that there would be a six  6 months of clinicals done before launch.  7 MS. SUTHERLAND: Objection.  8 THE WITNESS: That's correct.  9 BY MR. GOSS:  10 Q. And then we have an email here  11 where we learn and you learn in your  12 investigation that the Gynecare board made  13 the decision that they weren't going to do  14 the clinical testing.  15 MS. SUTHERLAND: Objection.  16 THE WITNESS: That's correct.  17 BY MR. GOSS:  18 Q. Okay. So let's get to the next  19 email. Cheryl Bogardus, I assume she was  20 the same Cheryl from below; right?  21 A. Yes.  22 Q. Writing back to Brian Luscombe,  23 responding to the previous email, she  24 says -- let's get to the second sentence in  25 the second paragraph. "To protect our</p>	<p style="text-align: right;">Page 384</p> <p>1 Q. Should a company ever put market  2 share and profits over safety?  3 MS. SUTHERLAND: Objection.  4 THE WITNESS: Never.  5 BY MR. GOSS:  6 Q. Is that a violation of the industry  7 standards?  8 MS. SUTHERLAND: Objection.  9 THE WITNESS: Yes, it is.  10 ///  11 BY MR. GOSS:  12 Q. Would that be a violation of  13 Ethicon's own credo?  14 MS. SUTHERLAND: Objection.  15 THE WITNESS: Yes, it is.  16 BY MR. GOSS:  17 Q. Would that be a violation of the  18 Global Harmonization Task Force?  19 MS. SUTHERLAND: Objection.  20 THE WITNESS: Yes, it would.  21 (Exhibit Number 22 was  22 marked for identification.)  23 BY MR. GOSS:  24 Q. I'll hand you what's been marked as  25 Pence Exhibit 22.</p>
<p style="text-align: right;">Page 383</p> <p>1 market share, we need to be ready to launch.  2 So the development process should not  3 require clinicals."  4 Do you find that sentence  5 important?  6 MS. SUTHERLAND: Objection.  7 THE WITNESS: Yes, I do.  8 BY MR. GOSS:  9 Q. Why is that important?  10 A. Because the key factors we  11 discussed earlier with regard to safety  12 principles is patient safety and ensuring  13 that the product is safe. The first point  14 of care of a company is not protecting  15 market share. While that's important, the  16 first point is to make sure that the product  17 is safe. You don't market a product without  18 knowing and justifying that it's safe and  19 effective.  20 Q. Should a company ever forego  21 recommended clinical testing so that it  22 could protect its market share?  23 MS. SUTHERLAND: Objection.  24 THE WITNESS: No.  25 BY MR. GOSS:</p>	<p style="text-align: right;">Page 385</p> <p>1 Is that a document that you found  2 in Ethicon's files?  3 MS. SUTHERLAND: Objection.  4 THE WITNESS: Yes, it is.  5 BY MR. GOSS:  6 Q. Is this an Ethicon document?  7 A. Yes, it is.  8 Q. Is this a document that you  9 reviewed in connection with forming your  10 opinions?  11 A. Yes, it is.  12 Q. Is it a document you relied upon in  13 forming your opinions?  14 A. Yes, it is.  15 Q. This document is dated June 24,  16 2003, from a Ronnie Toddywala. I believe  17 he's vice president of Gynecare.  18 Is that what you understand?  19 A. Yes. Gynecare research and  20 development.  21 Q. It says so on the bottom of the  22 document.  23 A. Yes.  24 Q. I'm trying to figure out who some  25 of these other people are. Is Cheryl</p>



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<p style="text-align: right;">Page 386</p> <p>1 Bogardus, we just spoke about her. Is she  2 the worldwide marketing director?  3 A. Yes. That's my understanding, yes.  4 Q. What about Axel Arnaud? I see he  5 is cc'd. Who's that?  6 A. He was actually -- for the TVT-O,  7 he was actually the person who identified  8 the -- Dr. De Leval who is the inventor of  9 the in-out procedure that is the TVT-O  10 procedure.  11 Q. Was he the head of medical affairs?  12 A. In Europe, yes.  13 Q. Okay. This document says, "Dear  14 All, as you know, Project Mulberry" --  15 again, is that the TVT-O?  16 A. Yes.  17 Q. -- "is critical to Gynecare's  18 success in the incontinence marketplace.  19 This team has been charged with the  20 breakthrough goal of completing this project  21 within nine months. We must make this  22 project happen in a short period of time.  23 You play a critical role in bringing this  24 endeavor."  25 First of all, do you find that</p>	<p style="text-align: right;">Page 388</p> <p>1 to safety?  2 MS. SUTHERLAND: Objection.  3 THE WITNESS: No.  4 BY MR. GOSS:  5 Q. Did you ever see any documents that  6 reflected how much the French market was  7 estimated to lose as a result of the  8 competitors entering the market in the TVT?  9 A. Yes.  10 Q. What percentage of the market were  11 they anticipating losing?  12 A. If I recall correctly, it was  13 30 percent.  14 Q. Is that substantial for a  15 manufacturer?  16 MS. SUTHERLAND: Objection.  17 THE WITNESS: Yes.  18 MR. GOSS: I'm sorry. I only  19 have one copy, but I think you've seen  20 it.  21 MS. SUTHERLAND: It's not like  22 I have a whole lot of time when you get  23 done to ask questions about it.  24 MR. GOSS: Yeah.  25 BY MR. GOSS:</p>
<p style="text-align: right;">Page 387</p> <p>1 important --  2 MS. SUTHERLAND: Objection.  3 The document speaks for itself.  4 BY MR. GOSS:  5 Q. -- in forming your opinion?  6 MS. SUTHERLAND: Speaks for  7 itself.  8 THE WITNESS: Yes.  9 BY MR. GOSS:  10 Q. Why are those statements important  11 to you in forming your opinions?  12 A. Notably, the breakthrough goal is  13 to complete the project within nine months,  14 and this project was initially, if I recall  15 correctly, this project was intended to have  16 24 months.  17 And part of that time, of course,  18 would have been doing the clinical testing  19 that we've talked about. So now for  20 competitive reasons, the decision has been  21 made that they must launch the product  22 within nine months.  23 Q. Again, would a reasonable and  24 prudent manufacturer decrease its launch  25 time by cutting clinical studies that relate</p>	<p style="text-align: right;">Page 389</p> <p>1 Q. I'm going to hand you what's been  2 marked as Exhibit 23.  3 (Exhibit Number 23 was  4 marked for identification.)  5 MR. GOSS: Do you want to look  6 at it first.  7 MS. SUTHERLAND: Just to see.  8 MR. GOSS: I'm only using this  9 one to liven you up a little bit.  10 MS. SUTHERLAND: I'm engrossed.  11 Can you not tell? Am I not objecting  12 enough?  13 BY MR. GOSS:  14 Q. Okay. Is this a document that you  15 reviewed that came from Ethicon's files?  16 A. Yes.  17 Q. And it says it's a sales training  18 launch meeting, January 22 through 23, 2004,  19 Bridgewater, New Jersey.  20 What's a sales training launch  21 meeting? What is that?  22 A. This is a presentation to the sales  23 representatives that will be detailing  24 physicians, telling them about this product  25 with the intent of the physicians buying</p>

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<p style="text-align: right;">Page 390</p> <p>1 this product.</p> <p>2 Q. Okay. And is the product on the</p> <p>3 market yet?</p> <p>4 A. It was launched in this period of</p> <p>5 time. It was cleared to go to the market in</p> <p>6 December of 2003. So this is -- this is</p> <p>7 the --</p> <p>8 Q. The TVT-O?</p> <p>9 A. The TVT-O. This is the sales</p> <p>10 training right after the product was cleared</p> <p>11 so that it could be sold in the U.S.</p> <p>12 Q. Okay. And is this a PowerPoint?</p> <p>13 A. Yes.</p> <p>14 Q. Okay. And, again, they're using</p> <p>15 this to train their sales team?</p> <p>16 A. Yes.</p> <p>17 Q. Okay. Let's turn to -- the pages</p> <p>18 aren't numbered, but can you find the top</p> <p>19 ten reasons to pursue the TVT obturator</p> <p>20 approach.</p> <p>21 A. Sorry. Some of them are upside</p> <p>22 down. I'm trying to find them.</p> <p>23 Q. Let me find it for you.</p> <p>24 By the way, did you review this</p> <p>25 document in preparation for your opinions?</p>	<p style="text-align: right;">Page 392</p> <p>1 Number 9, for example, says, "Since</p> <p>2 the needles don't enter the retropubic</p> <p>3 space, bladder perforation should be</p> <p>4 reduced."</p> <p>5 That's what you said earlier?</p> <p>6 A. That's correct.</p> <p>7 Q. It's a good scientific reason?</p> <p>8 A. Yes, it is.</p> <p>9 Q. Says one of the inventors, number</p> <p>10 4, "Doesn't like the obturator approach."</p> <p>11 That's a competitor doesn't like</p> <p>12 it; right?</p> <p>13 A. Yes.</p> <p>14 Q. Number 5, it says, "The hammock</p> <p>15 shape of the sling may result in less</p> <p>16 obstructive symptoms since it's hard to</p> <p>17 over-compress the urethra with the obturator</p> <p>18 sling."</p> <p>19 Scientific reason?</p> <p>20 A. Yes. Medical reason, yes.</p> <p>21 Q. And what did they give as the</p> <p>22 number one reason as to why they should</p> <p>23 pursue the TVT obturator approach?</p> <p>24 MS. SUTHERLAND: Objection.</p> <p>25 THE WITNESS: "Mama needs a new</p>
<p style="text-align: right;">Page 391</p> <p>1 A. I did.</p> <p>2 MS. SUTHERLAND: I'll object</p> <p>3 that the document speaks for itself.</p> <p>4 MR. GOSS: I'll let you have</p> <p>5 that objection for every document.</p> <p>6 MS. SUTHERLAND: May I have a</p> <p>7 continuing objection for every Ethicon</p> <p>8 document that you use?</p> <p>9 MR. GOSS: Sure.</p> <p>10 I do agree with your statement</p> <p>11 about the document earlier.</p> <p>12 MS. SUTHERLAND: What did I</p> <p>13 say?</p> <p>14 MR. GOSS: That it's gross.</p> <p>15 Strike that conversation.</p> <p>16 BY MR. GOSS:</p> <p>17 Q. Okay. Here you go.</p> <p>18 All right. Now, this sales</p> <p>19 document where they're teaching -- where</p> <p>20 Ethicon is teaching its salespeople about</p> <p>21 the TVT obturator and that approach in</p> <p>22 anticipation of going out and selling the</p> <p>23 product, they have a top ten reasons to</p> <p>24 pursue Gynecare TVT obturator approach. And</p> <p>25 we'll go through a few of these.</p>	<p style="text-align: right;">Page 393</p> <p>1 pair of shoes."</p> <p>2 BY MR. GOSS:</p> <p>3 Q. In other words, for profit?</p> <p>4 MS. SUTHERLAND: Objection.</p> <p>5 THE WITNESS: That's correct.</p> <p>6 BY MR. GOSS:</p> <p>7 Q. Should a company ever encourage --</p> <p>8 strike that.</p> <p>9 Would a reasonable and prudent</p> <p>10 manufacturer ever encourage its employees to</p> <p>11 sell its product solely for profit over</p> <p>12 safety?</p> <p>13 MS. SUTHERLAND: Objection.</p> <p>14 THE WITNESS: No.</p> <p>15 MS. SUTHERLAND: If you're</p> <p>16 switching, can I run down the hall real</p> <p>17 quick?</p> <p>18 MR. GOSS: Sure. Let's take a</p> <p>19 five-minute break.</p> <p>20 MS. SUTHERLAND: Yeah.</p> <p>21 THE VIDEOGRAPHER: With the</p> <p>22 approval of counsel, going off the</p> <p>23 record. The time is approximately</p> <p>24 6:29 p.m.</p> <p>25 (Recess taken from</p>

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<p style="text-align: right;">Page 394</p> <p>1 6:29 p.m. to 6:36 p.m.)</p> <p>2 THE VIDEOGRAPHER: With the</p> <p>3 approval of counsel, back on the record.</p> <p>4 The time is approximately 6:36 p.m.</p> <p>5 BY MR. GOSS:</p> <p>6 Q. Dr. Pence, I should have done this</p> <p>7 early on. I'll go ahead and do it now. We</p> <p>8 keep talking about the Global Harmonization</p> <p>9 Task Force, and we spent a lot of time on</p> <p>10 that this morning, and I'm not sure if this</p> <p>11 has been marked, but I'm going to mark</p> <p>12 another one just in case.</p> <p>13 I've marked Pence Exhibit 24.</p> <p>14 (Exhibit Number 24 was</p> <p>15 marked for identification.)</p> <p>16 BY MR. GOSS:</p> <p>17 Q. So I've handed you what has been</p> <p>18 marked as Pence Exhibit 24. And when we've</p> <p>19 talked about the Global Harmonization Task</p> <p>20 Force, is this one of the documents we</p> <p>21 talked about?</p> <p>22 A. Yes, it is.</p> <p>23 Q. Its title is "Essential Principles</p> <p>24 of Safety and Performance of Medical</p> <p>25 Devices," endorsed by the Global</p>	<p style="text-align: right;">Page 396</p> <p>1 or, where applicable, other persons provided</p> <p>2 that any risks which may be associated with</p> <p>3 their use constitute acceptable risks when</p> <p>4 weighed against the benefits of the patient</p> <p>5 and are compatible with a high level of</p> <p>6 protection of health and safety."</p> <p>7 That's a long way of saying --</p> <p>8 isn't it? -- that manufacturers should</p> <p>9 market safe products?</p> <p>10 MS. SUTHERLAND: Objection.</p> <p>11 THE WITNESS: Safe, and as I</p> <p>12 mentioned before, that have a favorable</p> <p>13 benefit-to-risk ratio.</p> <p>14 BY MR. GOSS:</p> <p>15 Q. Okay. I got on objection. Let me</p> <p>16 try to fix this.</p> <p>17 What are they saying there in</p> <p>18 Section 5.1?</p> <p>19 A. They're saying that for the</p> <p>20 intended use of a medical device, that they</p> <p>21 should be designed and produced in such a</p> <p>22 way that for their intended use, they don't</p> <p>23 compromise -- they don't cause undue risk to</p> <p>24 the patient or users of the device either</p> <p>25 and that, again, as I've specified before,</p>
<p style="text-align: right;">Page 395</p> <p>1 Harmonization Task Force dated May 20, 2005.</p> <p>2 A. That's correct.</p> <p>3 Q. And this is one of the documents</p> <p>4 that you discussed previously that provides</p> <p>5 the standard of care with respect to device</p> <p>6 manufacturers?</p> <p>7 A. Yes. It is an international</p> <p>8 standard of care.</p> <p>9 Q. Okay. And this is something that</p> <p>10 you applied in giving your opinions?</p> <p>11 A. Yes.</p> <p>12 Q. Okay. Let's go to page 8 of that</p> <p>13 document. Go to page 8 of that document and</p> <p>14 talking about under a section called</p> <p>15 "Essential Principles of Safety and</p> <p>16 Performance of Medical Devices." It says,</p> <p>17 "General Requirements. Medical devices</p> <p>18 should be designed and manufactured in such</p> <p>19 a way that, when used under the conditions</p> <p>20 and for the purposes intended, and where</p> <p>21 applicable, by virtue of the technical</p> <p>22 knowledge, experience, education or training</p> <p>23 of intended users, they will not compromise</p> <p>24 the clinical condition or the safety of</p> <p>25 patients or the safety and health of users</p>	<p style="text-align: right;">Page 397</p> <p>1 that one has to always look at the potential</p> <p>2 risks versus the potential benefits and</p> <p>3 assure that there's a favorable</p> <p>4 benefit-to-risk ratio.</p> <p>5 In other words, that the benefits</p> <p>6 exceed the potential risks and any risks are</p> <p>7 acceptable.</p> <p>8 Q. We talked about safety principles</p> <p>9 earlier in Exhibit 16.</p> <p>10 A. Yes.</p> <p>11 Q. Does that support your safety</p> <p>12 principle number 1?</p> <p>13 MS. SUTHERLAND: Objection.</p> <p>14 THE WITNESS: Yes.</p> <p>15 BY MR. GOSS:</p> <p>16 Q. Like the first line, "A corporation</p> <p>17 is required to make sure its products are</p> <p>18 reasonably safe"?</p> <p>19 A. Yes.</p> <p>20 MS. SUTHERLAND: Objection.</p> <p>21 BY MR. GOSS:</p> <p>22 Q. Does it also support "Safety of</p> <p>23 patients has to be the number one priority,</p> <p>24 not corporate profits"?</p> <p>25 A. Yes, it does.</p>

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<p style="text-align: right;">Page 398</p> <p>1 MS. SUTHERLAND: Objection.  2 BY MR. GOSS:  3 Q. Let me ask you -- let's go down  4 that document some more.  5 MS. SUTHERLAND: Can I have a  6 continuing objection, again, to just  7 reading the GHF documents as well as  8 you already gave me the one on the  9 Ethicon documents.  10 MR. GOSS: Sure.  11 How am I supposed to use it if  12 I can't read it? Am I supposed to --  13 mental telepathy to the --  14 MS. SUTHERLAND: You're  15 supposed to ask her what it means if it  16 needs explanation by an expert.  17 BY MR. GOSS:  18 Q. Let talk about Section 5.2 of the  19 general requirements, and I'll ask the court  20 to let us publish 5.2 to the jury.  21 Tell me what 5.2 means.  22 A. The essence of this is that a  23 medical device manufacturer must do a risk  24 assessment of its product to, again, make  25 sure that the risks are acceptable for</p>	<p style="text-align: right;">Page 400</p> <p>1 A. Yes.  2 Q. What does that mean?  3 A. That means in the design of the  4 device and how it's actually produced, that  5 they do a risk assessment and anything that  6 they can do to control risks in how the  7 device is designed and manufactured, they  8 are supposed to do.  9 Q. Does that support, back to  10 Exhibit 16, safety principles, the safety  11 principle on page 3 of Exhibit 16, "If a  12 corporation has two products that treat the  13 same condition, and one is safer for the  14 patients, the corporation must choose the  15 safest product"?  16 MS. SUTHERLAND: Objection.  17 THE WITNESS: Yes. That would  18 be consistent with what we just read.  19 BY MR. GOSS:  20 Q. Okay. I'm going to hand you what's  21 been marked as Exhibit 25.  22 (Exhibit Number 25 was  23 marked for identification.)  24 MS. SUTHERLAND: I've seen it.  25 BY MR. GOSS:</p>
<p style="text-align: right;">Page 399</p> <p>1 the -- how the product is designed and how  2 it's manufactured, and to do that, they have  3 to identify known or foreseeable potential  4 risks, estimate those risks, eliminate them  5 as far as they can, reduce any remaining  6 risks by taking adequate protection measures  7 and very importantly, according to what  8 we've been discussing with regard to  9 labeling, the key there is inform users of  10 any residual risks.  11 Q. Does that support the second page  12 of your safety principles in Exhibit 16 that  13 a corporation must investigate warning signs  14 that its products may be dangerous and make  15 sure that any problems with the product are  16 fixed in a safe manner?  17 MS. SUTHERLAND: Objection.  18 THE WITNESS: Yes, it does.  19 BY MR. GOSS:  20 Q. Okay. Now I'd like for you to look  21 at page 9 of 15 on that exhibit, which is  22 Exhibit 24. In particular, where it says  23 that "They should eliminate risks as far as  24 reasonably practicable through inherently  25 safe design and manufacture."</p>	<p style="text-align: right;">Page 401</p> <p>1 Q. Is this, again, another Global  2 Harmonization Task Force document?  3 A. Yes.  4 Q. Titled "Clinical Evaluation"?  5 A. That's correct.  6 Q. Dated May, 2007?  7 A. That's correct.  8 Q. Is this one of the documents that  9 you relied upon for the standard of care?  10 A. Yes.  11 Q. Let me turn you to -- direct you to  12 page 4 of 28. And you talked a little bit  13 earlier about clinical evaluation.  14 A. Yes.  15 Q. And what does this tell us in that  16 third section, third paragraph there about  17 clinical evaluation as far as the standard  18 of care is described in this document?  19 MS. SUTHERLAND: Objection.  20 THE WITNESS: Are you talking  21 about the first paragraph after "Why is  22 clinical evaluation important?"  23 BY MR. GOSS:  24 Q. Right.  25 A. Clinical evaluation is one of the</p>

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<p style="text-align: right;">Page 402</p> <p>1 methods by which one assures that a device  2 satisfies the essential principles of safety  3 and performance. Basically, it's through  4 clinical testing that you determine whether  5 the product is safe and whether it's  6 effective in humans.  7 Q. Okay. And does it talk about  8 minimizing adverse events?  9 A. Yes, it does. And clinical  10 evaluation, in this context, includes  11 clinical data from different sources.  12 Clinical testing as well as commercial  13 experience and also the scientific and  14 medical literature, the peer-reviewed  15 publications that we talked about.  16 Q. Okay. Let's shift gears. Let's go  17 to -- I want to talk with you briefly about  18 the 510(k) process.  19 What are the two processes by which  20 a medical device can come to market?  21 A. The 510(k) process, if an  22 application is required to be submitted to  23 the FDA, either a -- what's called a 510(k),  24 a pre-market notification, or a pre-market  25 approval application, which is referred to</p>	<p style="text-align: right;">Page 404</p> <p>1 received 510(k) clearance represent that its  2 product has received approval?  3 A. No.  4 Q. Why is that?  5 A. There's a specific regulation that  6 specifies that one cannot give -- infer that  7 a 510(k) clearance constitutes an approval  8 by FDA.  9 Q. What type of studies are typically  10 done with PMA approval?  11 A. Almost all PMAs require clinical  12 human testing.  13 Q. Okay. But a product -- a device  14 that's gone through 510(k) clearance have  15 done any clinical testing?  16 MS. SUTHERLAND: Objection.  17 THE WITNESS: Only about 10 to  18 15 percent require clinical testing.  19 BY MR. GOSS:  20 Q. If a manufacturer wanted to do  21 clinical testing before seeking 510(k)  22 clearance, could it?  23 A. Absolutely.  24 Q. Okay. How long does it take to get  25 pre-market approval versus clearance?</p>
<p style="text-align: right;">Page 403</p> <p>1 as a PMA.  2 Q. What's the difference between a  3 510(k) pre-market notification or clearance  4 and pre-market approval?  5 A. There are a number of differences  6 between the two. Probably the key one is  7 that a 510(k) pre-market notification is  8 submitted to FDA to get a clearance of the  9 product to market based on substantial  10 equivalence to what is termed a predicate  11 product, a product that's already legally on  12 the market that is similar to the device  13 that is the subject device that the company  14 intends to market.  15 Where the pre-market approval  16 application is submitted to the FDA and  17 includes a much larger volume of data, and  18 the data submitted is reviewed by FDA in  19 such a way that it is an independent  20 demonstration -- there must be an  21 independent demonstration of safety and  22 effectiveness, and a PMA product, if FDA  23 accepts it for -- authorizes it to be  24 marketed is approved versus cleared.  25 Q. Can a manufacturer that has</p>	<p style="text-align: right;">Page 405</p> <p>1 MS. SUTHERLAND: Objection.  2 THE WITNESS: The average --  3 the -- typically -- well, it depends on  4 the type of submission. In the case of  5 TVT-O, it's what we call a special  6 510(k), and it was approved in  7 approximately a month, just under a  8 month. The overall average, depending  9 on which year you look at, is around 90  10 to 140 days.  11 The pre-market approval review  12 at FDA can require upwards of 300,  13 350 days, and generally speaking, it's  14 anywhere from two-and-a-half to  15 three-and-a-half or four times the  16 amount of time that FDA spends reviewing  17 a PMA by contrast to a traditional  18 510(k), and the TVT-O was not a  19 traditional. It was a special which  20 means less information, less time.  21 BY MR. GOSS:  22 Q. Just so it's clear for the jury,  23 was there ever an independent determination  24 by the FDA that the TVT-O was safe or it was  25 efficacious?</p>



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<p style="text-align: right;">Page 406</p> <p>1 MS. SUTHERLAND: Objection.  2 THE WITNESS: No.  3 BY MR. GOSS:  4 Q. Is there any room for debate about  5 that?  6 A. No.  7 MS. SUTHERLAND: Objection.  8 BY MR. GOSS:  9 Q. Let's talk a little bit about the  10 TVT-O. And you talked a little bit this  11 morning with defense counsel about Prolene  12 mesh, and there was some discussion about  13 fraying.  14 Do you recall that?  15 A. Yes, I do.  16 Q. In your investigations of -- in  17 your investigation of Ethicon's files, did  18 you uncover any documents that discussed any  19 complaints about the Prolene mesh product  20 fraying?  21 A. Yes, I did.  22 Q. Did you uncover any documents that  23 discussed particle loss with respect to  24 Prolene mesh?  25 A. Yes.</p>	<p style="text-align: right;">Page 408</p> <p>1 and TVT-O, do they use the same mesh?  2 A. Yes, they do.  3 Q. Okay. So what is this document,  4 and why was it important to you?  5 MS. SUTHERLAND: Objection.  6 THE WITNESS: This is a  7 document about a customer's experience  8 with a TVT device where there was  9 unravelling. It's a complaint where  10 unravelling of the tape occurred, and  11 the tape became particles, and after  12 implantation of the TVT device, the  13 staff found remaining particles that had  14 been lost from the mesh in the box.  15 BY MR. GOSS:  16 Q. And Carol -- this is a letter from  17 Carol Holloway. She is a product complaint  18 analyst worldwide customer quality for  19 Gynecare.  20 Is Gynecare a part of J&amp;J and  21 Ethicon?  22 A. Yes.  23 MS. SUTHERLAND: Objection.  24 BY MR. GOSS:  25 Q. I believe it's a women's division</p>
<p style="text-align: right;">Page 407</p> <p>1 Q. Did you review any documents that  2 discussed the difference between MCM and LCM  3 with respect to fraying and particle loss?  4 A. Yes, I did.  5 Q. Did those documents form a basis of  6 your opinions that you're giving today?  7 A. Yes, they did.  8 Q. I'm going to hand you what's been  9 marked as Pence Exhibit 26.  10 ///  11 (Exhibit Number 26 was  12 marked for identification.)  13 BY MR. GOSS:  14 Q. Is that a document that you  15 reviewed from Ethicon's files?  16 A. Yes, it is.  17 Q. And is this a document relating to  18 a TVT device?  19 A. Yes, it is.  20 Q. What's the date of this document?  21 A. October 12, 2005.  22 Q. And who is Carol Holloway?  23 A. She's a product complaint analyst  24 in worldwide customer quality.  25 Q. By the way, when we talk about TVT</p>	<p style="text-align: right;">Page 409</p> <p>1 or something?  2 A. That's correct.  3 Q. And one of the sentences -- explain  4 to the jury this sentence: "Fraying is  5 inherent in the product" -- this is  6 Ms. Holloway for the Gynecare talking.  7 "Fraying is inherent in the product based  8 upon the mesh construction."  9 What does that mean, "Fraying is  10 inherent in the product"?  11 MS. SUTHERLAND: Objection.  12 THE WITNESS: The way the  13 product is designed and with the  14 mechanical cutting, what occurs is that  15 there is -- the term that has been used  16 by Ethicon is a degradation of the mesh  17 structure so that the structure  18 particularly when they -- there's  19 particle loss even without stretching  20 but when -- particularly when the  21 product is stretched, that the structure  22 along the edges of the mesh is lost, and  23 the product can rope and curl and  24 particles fall off.  25 BY MR. GOSS:</p>

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<p style="text-align: right;">Page 410</p> <p>1 Q. Under the re line there, it has a  2 lot number. Can you tell from that lot  3 number whether this lot -- whether this  4 product that's being discussed in this  5 exhibit is mechanical cut?  6 A. Yes.  7 Q. And what is it?  8 A. It's mechanically cut.  9 Q. And how do you know that?  10 A. There's no L for laser cut as well  11 as in October, 2005, the laser cut was not  12 yet available.  13 Q. So what should a reasonable,  14 prudent manufacturer do when it receives a  15 letter like this?  16 MS. SUTHERLAND: Objection.  17 THE WITNESS: There's a number  18 of different things it should do. It  19 should do further investigation. It  20 should open up corrective and preventive  21 action, determine what the cause of this  22 is, and then look at what it can do to  23 mitigate risks.  24 And it should investigate, like  25 this loss of particles and the</p>	<p style="text-align: right;">Page 412</p> <p>1 approximately 36 years. Engineering fellow  2 at this point, I believe.  3 Q. So, and he's writing to Janice  4 Burns. I believe she's with -- @ethgb means  5 Ethicon Great Britain; is that right?  6 A. Yes, that's my understanding.  7 Q. And, again, with these emails, we  8 start from the back, which should be the  9 second page; right?  10 A. Yes.  11 Q. And that appears to be, on the  12 second page, an email from Bernhard Fischer,  13 who appears to be from marketing Gynecare  14 and Breast Care in Vienna.  15 A. Correct.  16 Q. And he is writing Janice Burns in  17 Great Britain regarding TVT complaints; is  18 that right?  19 A. Yes.  20 Q. And is this email something that  21 you relied upon in forming your opinions?  22 A. Yes, it is.  23 Q. And is this time period a time  24 period before there was laser-cut mesh?  25 A. Yes, it is.</p>
<p style="text-align: right;">Page 411</p> <p>1 stretching that occurs, whether or  2 not -- how that -- I should say how that  3 impacts the safety and effectiveness of  4 the tape when implanted.  5 BY MR. GOSS:  6 Q. Let me hand you what's been marked  7 as Exhibit 27 to your deposition.  8 (Exhibit Number 27 was  9 marked for identification.)  10 ///  11 BY MR. GOSS:  12 Q. Is that a document that you  13 reviewed from Ethicon's files?  14 A. Yes, it is.  15 Q. And is this a document that you  16 relied upon in forming your opinions today?  17 A. Yes, it is.  18 Q. And this document is from Dan  19 Smith.  20 Do you know who Dan Smith is?  21 A. Yes, I do.  22 Q. Who is he?  23 A. He is a lead engineer. If I recall  24 correctly, he was a project lead on the  25 TVT-O and been with the company</p>	<p style="text-align: right;">Page 413</p> <p>1 Q. So the mesh we're talking about  2 here would be mechanically cut mesh?  3 A. Yes.  4 Q. Okay. And what's Janice Burns --  5 what is Bernhard Fischer explaining to  6 Janice Burns in this email?  7 MS. SUTHERLAND: Objection.  8 THE WITNESS: It's about two  9 TVT complaints, both dealing with the  10 same issue. One with the retropubic --  11 the TVT retropubic, and one with the TVT  12 obturator, the TVT-O, and it has to do  13 with a small blue particles. The mesh  14 was blue, falling off the mesh, and they  15 term it as if the mesh was brittle. It  16 has to do with the particle loss and  17 fraying that we were just discussing.  18 BY MR. GOSS:  19 Q. Okay. Let's go back to the front  20 page now and look at the end of the email  21 where Dan Smith is writing to Janice Burns.  22 He's responding to this situation; is that  23 right?  24 A. Yes.  25 Q. And he writes, "This is not new,</p>

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<p style="text-align: right;">Page 414</p> <p>1 and was exactly the original issue that  2 stopped TVT blue for months. The fix, I'm  3 not sure how complete, is to cut the mesh  4 using ultrasonics, but it has not been  5 validated. I'm not sure where it sits on  6 the operations priority list."  7 What does that mean?  8 MS. SUTHERLAND: Objection.  9 THE WITNESS: It means that the  10 company has identified a way to fix the  11 fraying, but they've not implemented it.  12 BY MR. GOSS:  13 Q. Okay. In the company documents, do  14 they sometimes use ultrasonic and LCM  15 interchangeably?  16 A. They're different, but they've used  17 ultrasonic cutting to test material that  18 they -- that they've -- where they've later  19 marketed laser-cut mesh. They've done the  20 testing with ultrasonically cut mesh.  21 Q. Okay. So go down to the third -- I  22 guess the fourth paragraph there. "This is  23 not going away any time soon, and  24 competition will have a field day. Major  25 damage control offensive needs to start to</p>	<p style="text-align: right;">Page 416</p> <p>1 Should a manufacturer ever manufacture a  2 product so that a defect could not be  3 apparent to the user?  4 MS. SUTHERLAND: Objection.  5 THE WITNESS: No.  6 BY MR. GOSS:  7 Q. Would that be a violation of  8 standards in the industry?  9 MS. SUTHERLAND: Objection.  10 THE WITNESS: Absolutely.  11 BY MR. GOSS:  12 Q. I'm handing you what's been marked  13 as Exhibit 28.  14 (Exhibit Number 28 was  15 marked for identification.)  16 BY MR. GOSS:  17 Q. Is that a document that you  18 reviewed from Ethicon's files?  19 A. Yes, it is.  20 Q. Is this a document that you relied  21 upon in forming your opinions that you're  22 giving today?  23 A. Yes, it is.  24 Q. And this is another one of those  25 two-page emails. It appears to be -- it</p>
<p style="text-align: right;">Page 415</p> <p>1 educate the reps and the surgeons upfront  2 that they will see blue shit, and it is  3 okay. This is why I wanted to launch TVT-O  4 in clear."  5 Is there anything in that sentence  6 that's important to your opinions?  7 MS. SUTHERLAND: Objection.  8 THE WITNESS: Yes.  9 BY MR. GOSS:  10 Q. What's that?  11 A. They've identified this shedding of  12 particles as an issue, and yet their concern  13 is more about it not being noticeable to  14 surgeons than actually doing an evaluation  15 and the appropriate testing to determine  16 whether or not this is a safety risk or an  17 effectiveness risk as well for the patients  18 in whom this faulty product is implanted.  19 Q. Is that a violation of the safety  20 principles we've discussed today?  21 MS. SUTHERLAND: Objection.  22 THE WITNESS: Yes, it is.  23 BY MR. GOSS:  24 Q. Should a -- Dan Smith is saying  25 here that he wanted the TVT-O to be clear.</p>	<p style="text-align: right;">Page 417</p> <p>1 appears to involve, at the bottom, Dan  2 Smith, who we just talked about; right?  3 A. Yes.  4 Q. Janice Burns, who we just talked  5 about as well?  6 A. Yes.  7 Q. Charlotte Owens, who appears to be  8 the worldwide medical director --  9 A. Yes.  10 Q. -- for Gynecare, a division of  11 Ethicon?  12 A. That's correct.  13 Q. Is that a high position?  14 A. Yes.  15 MS. SUTHERLAND: Objection.  16 BY MR. GOSS:  17 Q. And it attaches a letter in the  18 back or an email, I guess, from Steve Bell.  19 Do you see that?  20 A. I do.  21 Q. And it says, "Dear All, As more and  22 more customers now move to TVT Blue and  23 TVT-O with blue mesh, you may sometimes hear  24 'I can see small blue pieces come off the  25 mesh! What's wrong?'"</p>

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<p style="text-align: right;">Page 418</p> <p>1 Do you see that?</p> <p>2 A. I do.</p> <p>3 Q. And I want to focus on the third</p> <p>4 sentence there, the third element there. It</p> <p>5 says, "Reassure your doctors" -- and, by the</p> <p>6 way, Steve Bell is director of marketing;</p> <p>7 right?</p> <p>8 A. Yes, for Europe.</p> <p>9 Q. And he's saying, "Reassure your</p> <p>10 doctors that this is part of the success of</p> <p>11 TVT. The way we have cut the mesh makes the</p> <p>12 edges softer, and we feel that this has been</p> <p>13 a crucial success factor in TVT. Reassure</p> <p>14 them that Prolene has proven to be inert,</p> <p>15 and there are hundreds of papers going back</p> <p>16 25 years to reinforce this point. These</p> <p>17 particles will not cause any problem."</p> <p>18 What I want to focus on is the</p> <p>19 statement "Reassure them that Prolene has</p> <p>20 proven to be inert, and there are hundreds</p> <p>21 of papers going back 25 years to reinforce</p> <p>22 this point."</p> <p>23 Is that statement -- you've</p> <p>24 reviewed the literature in that regard, have</p> <p>25 you not?</p>	<p style="text-align: right;">Page 420</p> <p>1 MS. SUTHERLAND: Objection.</p> <p>2 THE WITNESS: They're the</p> <p>3 international globally accepted standard</p> <p>4 of care, yes.</p> <p>5 BY MR. GOSS:</p> <p>6 Q. Okay. Is there any debate about</p> <p>7 that?</p> <p>8 MS. SUTHERLAND: Objection.</p> <p>9 THE WITNESS: No.</p> <p>10 ///</p> <p>11 BY MR. GOSS:</p> <p>12 Q. Okay. Let me -- under "Why is</p> <p>13 Clinical Evaluation Important," it says, the</p> <p>14 last sentence of the first paragraph there,</p> <p>15 "That any claims made about the device's</p> <p>16 performance and safety should be supported</p> <p>17 by suitable evidence."</p> <p>18 Do you see that?</p> <p>19 A. Yes.</p> <p>20 Q. The statement that Steve bell is</p> <p>21 telling his marketing people to say to</p> <p>22 doctors, does that violate that provision of</p> <p>23 the Global Harmonization Task Force?</p> <p>24 MS. SUTHERLAND: Objection.</p> <p>25 THE WITNESS: It certainly</p>
<p style="text-align: right;">Page 419</p> <p>1 A. Yes, I have.</p> <p>2 MS. SUTHERLAND: Objection.</p> <p>3 BY MR. GOSS:</p> <p>4 Q. Is that statement true?</p> <p>5 MS. SUTHERLAND: Objection.</p> <p>6 THE WITNESS: No, it is not.</p> <p>7 BY MR. GOSS:</p> <p>8 Q. Is it even close to true?</p> <p>9 A. No.</p> <p>10 MS. SUTHERLAND: Objection.</p> <p>11 THE WITNESS: There are</p> <p>12 certainly papers, but the fact that it's</p> <p>13 inert, that is definitely not true.</p> <p>14 BY MR. GOSS:</p> <p>15 Q. Let me ask you, the Global</p> <p>16 Harmonization Task Force says -- let me</p> <p>17 refer you to the clinical evaluation.</p> <p>18 A. Yes.</p> <p>19 Q. Let me refer you to page 4 of 28.</p> <p>20 A. Yes.</p> <p>21 Q. And, again, just to back up a</p> <p>22 little bit for the jury, the Global</p> <p>23 Harmonization Task Force document are</p> <p>24 documents that you say provide the standard</p> <p>25 of care for this industry.</p>	<p style="text-align: right;">Page 421</p> <p>1 does.</p> <p>2 BY MR. GOSS:</p> <p>3 Q. Is it supported by suitable</p> <p>4 evidence?</p> <p>5 A. No, it is not.</p> <p>6 MS. SUTHERLAND: Objection.</p> <p>7 BY MR. GOSS:</p> <p>8 Q. Okay. And is that a violation of</p> <p>9 the standard of care?</p> <p>10 A. Yes, it is.</p> <p>11 MS. SUTHERLAND: Objection.</p> <p>12 BY MR. GOSS:</p> <p>13 Q. Okay. And then just to close up on</p> <p>14 this, the email on the first page, Dan</p> <p>15 Smith, again, is telling Charlotte Owens in</p> <p>16 the last sentence there, "There's been some</p> <p>17 customer questions raised about the blue</p> <p>18 particles again, the same as when it was</p> <p>19 released in the States."</p> <p>20 Is that important in forming your</p> <p>21 opinion?</p> <p>22 A. Yes, it is.</p> <p>23 Q. Why is that?</p> <p>24 A. This is an ongoing problem, and, in</p> <p>25 fact, there is other documentation as well</p>

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<p style="text-align: right;">Page 422</p> <p>1 and testimony that says this is a product  2 defect, and the company is aware it's  3 ongoing but yet has not addressed it.  4 Q. As of the 2004 time period here,  5 the time period of these emails, have you  6 seen anything in Ethicon's files where it's  7 done a clinical test on particle loss?  8 A. No. None.  9 Q. And whether or not it's safe?  10 MS. SUTHERLAND: Objection.  11 THE WITNESS: That's correct.  12 No testing.  13 BY MR. GOSS:  14 Q. Okay. Would a reasonable, prudent  15 manufacturer at this time have begun  16 clinical testing, at least by this time, to  17 determine whether or not this particle loss  18 was an issue?  19 A. If they were going to maintain this  20 on the market, absolutely.  21 THE VIDEOGRAPHER: Can we go  22 off for 10 seconds?  23 MR. GOSS: Sure.  24 THE VIDEOGRAPHER: With the  25 approval of counsel, I'm going off the</p>	<p style="text-align: right;">Page 424</p> <p>1 string involving, among others, David  2 Menneret who is a complaint investigator and  3 regulatory contact for Ethicon; is that  4 right?  5 A. That's correct.  6 Q. It also involves -- if you look at  7 the front page, Dan Smith is involved.  8 Does this look like the TVT people?  9 A. Yes.  10 Q. Okay. And the first document,  11 Exhibit 29, essentially encloses the  12 exhibit -- the letter that's marked as  13 Exhibit 30; is that right?  14 A. I'm sorry. Could you reask that?  15 Q. The first document, Exhibit 29, is  16 really enclosing and transferring the letter  17 marked as Exhibit 30; right?  18 A. Yes, that's correct.  19 Q. And what is Exhibit 30?  20 A. Exhibit 30 is a letter from a Dr.  21 Eberhard who has been a major user, actually  22 an important customer in Switzerland,  23 important user of Ethicon's products -- mesh  24 products.  25 Q. I believe on the second page of</p>
<p style="text-align: right;">Page 423</p> <p>1 record. The time is approximately  2 7:08 p.m.  3 (Recess taken from  4 7:08 p.m. to 7:10 p.m.)  5 THE VIDEOGRAPHER: With the  6 approval of counsel, back on the record.  7 The time is approximately 7:10 p.m.  8 BY MR. GOSS:  9 Q. I'm going to hand you two documents  10 that I believe go together marked as  11 Exhibits 29 and 30.  12 (Exhibit Numbers 29 and 30  13 were marked for identification.)  14 BY MR. GOSS:  15 Q. Have you seen those documents  16 before?  17 A. Yes, I certainly have.  18 Q. Are those documents that came out  19 of Ethicon's files?  20 A. Yes.  21 Q. Are these documents that you  22 reviewed and relied upon in forming your  23 opinions?  24 A. Yes, they are.  25 Q. And this appears to be an email</p>	<p style="text-align: right;">Page 425</p> <p>1 Exhibit 29, they describe him as an opinion  2 leader?  3 A. Yes.  4 Q. It says, on Exhibit 29, "He knows  5 everything about tape, and if we lost him,  6 we lost all."  7 Do you see that?  8 A. Yes.  9 Q. By the way, what's an opinion  10 leader?  11 A. An opinion leader is, in this case,  12 a doctor who is very well recognized in his  13 field of practice as an authority.  14 Q. Okay. And so this opinion leader  15 who they describe in the email as someone  16 who knows everything about tape and if we  17 lost him, we lost all, and his letter on  18 Exhibit 30, he states, "Dear Emilie, Please  19 find attached a TVT tape which was used as a  20 demo unit for patients before they have  21 their operation.  22 "Already at the operation, it is  23 embarrassing to see how the tape is  24 crumbling, but it gets worse if there is a  25 stretch on the tape. It is urgent that</p>

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<p style="text-align: right;">Page 426</p> <p>1 Johnson &amp; Johnson quickly produce a tape 2 that is solid and weaved. If not, I have 3 the convenience that the doctors will change 4 the tape and will get others. I can't 5 understand that no one will solve that 6 problem for such a long time. 7 "At the latest, as the tape has 8 become blue, everyone has realized the 9 quality of the tape is terrible." Then he 10 attaches some pictures. And it says the 11 tape needs to be weaved; so it doesn't 12 crumble. 13 Why is a document like this -- why 14 do you find something like this, if you do, 15 important in their files? 16 MS. SUTHERLAND: Object to the 17 reading of the document. 18 THE WITNESS: It's critically 19 important. It's another complaint. The 20 company has gotten now multiple 21 complaints about the fraying of its 22 product from the doctors who are using 23 it. And companies have a responsibility 24 to investigate complaints, to implement 25 corrective and preventive actions as</p>	<p style="text-align: right;">Page 428</p> <p>1 violation of the standards in the industry 2 as set forth in the documents that we've 3 looked at? 4 MS. SUTHERLAND: Objection. 5 THE WITNESS: Yes, it is. 6 BY MS. SUTHERLAND: 7 Q. You talked earlier today about a -- 8 some slides or a PowerPoint that Gene 9 Kammerer did. 10 Do you recall that? 11 A. Yes, I do. 12 Q. Where he had done some comparisons 13 of mechanically cut mesh and laser-cut mesh? 14 A. Yes. 15 Q. I'm going to hand you what's been 16 marked as Exhibits 31 and 32 and ask you if 17 those were the slides that you were talking 18 about. 19 (Exhibit Numbers 31 and 32 20 were marked for identification.) 21 THE WITNESS: Yes, they are. 22 BY MR. GOSS: 23 Q. And were those slides -- did you 24 find those -- were those in Ethicon's files? 25 A. Yes.</p>
<p style="text-align: right;">Page 427</p> <p>1 appropriate to change the issue, to 2 address the issue, I mean to say, and 3 correct it and study if it's causing 4 safety and efficacy risks. 5 BY MS. SUTHERLAND: 6 Q. After this receipt of this letter 7 from this person they've described as one of 8 their opinion leaders, as someone who knows 9 everything about tape in November of 2004, 10 did you see any evidence in the files where 11 the company endeavored to start conducting 12 any clinical trials to see what's going on 13 with this problem? 14 A. No. 15 MS. SUTHERLAND: Objection. 16 BY MS. SUTHERLAND: 17 Q. Would a reasonable, prudent 18 manufacturer have done that? 19 MS. SUTHERLAND: Objection. 20 THE WITNESS: If they were 21 going to maintain this on the market, 22 absolutely. 23 BY MS. SUTHERLAND: 24 Q. Continuing to market this product 25 without conducting those tests, is that a</p>	<p style="text-align: right;">Page 429</p> <p>1 Q. And was there an email accompanying 2 this that demonstrated that they were done 3 by Gene Kammerer? 4 A. Yes. 5 Q. And was he an engineer? 6 A. Yes. 7 Q. Okay. Is this -- by the way, that 8 email -- we might as well just so we can get 9 a time frame -- just so we get a time frame, 10 I'll hand you what's been marked as Exhibit 11 33. 12 (Exhibit Number 33 was 13 marked for identification.) 14 BY MR. GOSS: 15 Q. Just so we get a time frame of when 16 this is being done, is that the email that 17 you found in Ethicon's files where these 18 slides were being shown to people? 19 A. Yes. 20 Q. Okay. Again, Gene Kammerer is an 21 engineer? 22 A. He's an engineering fellow at 23 Ethicon research and development. 24 Q. What's the date of that email? 25 A. August 28, 2006.</p>

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<p style="text-align: right;">Page 430</p> <p>1 Q. And he's sending these to a number 2 of Ethicon people; is that right? 3 A. Yes, he is. 4 Q. Now, prior to August 28 of 2006, 5 did you uncover any documents in your 6 investigation where something like this 7 comparison had been done prior to 2006? 8 MS. SUTHERLAND: Objection. 9 THE WITNESS: No. I don't 10 recall having seen anything earlier than 11 this of this type of comparison. 12 BY MR. GOSS: 13 Q. Okay. So and what is -- now let's 14 move to the slides. 15 A. Okay. 16 Q. Okay. What is it that he's doing 17 in Exhibits 31 and 32, just generally? 18 A. He's taken pictures of laser-cut 19 mesh versus mechanically cut mesh, 20 particularly on stretching. 21 Q. Okay. Let's look at Exhibit 31. 22 That's the first one; right? 23 A. Yes. 24 Q. And does he describe his results 25 there?</p>	<p style="text-align: right;">Page 432</p> <p>1 it ropes, and it can rope underneath -- you 2 know, the idea of the sling, the tape is 3 that it fits under the urethra to support 4 the urethra to prevent stress urinary 5 incontinence, and that roping can affect 6 effectiveness as well as safety. 7 Q. And what does he conclude with 8 respect to mechanically cut mesh versus 9 laser-cut mesh as to roping? 10 A. That the mechanically cut mesh 11 ropes, and the roping does not occur with 12 the laser-cut mesh. 13 Q. And what did he -- what did he 14 conclude about particle loss with respect to 15 mechanically cut mesh versus laser-cut mesh? 16 A. There's significant particle loss 17 with the mechanically cut mesh where, by 18 contrast, the laser-cut mesh, there's either 19 no particle lost or almost no particles 20 lost. 21 Q. And let's go to the third page of 22 that first exhibit where it's a side-by-side 23 slide. 24 Do you see that? 25 A. Yes, I do.</p>
<p style="text-align: right;">Page 431</p> <p>1 A. Yes, he does. 2 Q. And generally, what is he saying 3 about the results of this comparison that 4 he's done, this engineering fellow has done 5 who works for Ethicon? 6 MS. SUTHERLAND: Objection. 7 THE WITNESS: He's stretched 8 the samples of both the laser-cut and 9 the mechanically cut mesh to 50 percent 10 elongation then let them relax. And the 11 mechanically cut mesh shows, as I was 12 talking about earlier, the degradation 13 of the structure of the mesh in certain 14 areas because of particle loss, whereas 15 the laser-cut mesh does not show that 16 same degradation of the structure of the 17 mesh, and no particles -- or nearly no 18 particles haven been lost, as he terms 19 it. 20 BY MR. GOSS: 21 Q. In that third paragraph, he 22 discusses roping. Tell the jury what roping 23 is. 24 A. It's a stretching and narrowing of 25 the mesh so that it loses its structure and</p>	<p style="text-align: right;">Page 433</p> <p>1 Q. And tell me what's going on here. 2 A. This is a picture that shows what 3 he described. It's a picture of the 4 mechanically cut mesh that's been relaxed 5 after it's been pulled 50 percent 6 elongation, and the same pictures of the 7 laser-cut mesh after it's been treated in 8 the same way. 9 And one can see on the edges of the 10 mechanically cut mesh how the weave that has 11 been -- the structure has been lost. You 12 can see the particles that have been lost in 13 the photographic field, and you can see the 14 narrowing. 15 And by contrast, you can see on the 16 laser-cut mesh, you don't see the particles 17 in the photographic field because there 18 weren't the particles lost, and you can see, 19 although there may be some narrowing from 20 the stretching, certainly not as significant 21 and that the mesh structure has remained 22 intact. 23 Q. And then the next page of that 24 slide he discusses a -- it's entitled 25 "Description of Side-By-Side Views."</p>

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<p style="text-align: right;">Page 434</p> <p>1 A. Yes.</p> <p>2 Q. And what does he conclude?</p> <p>3 MS. SUTHERLAND: Objection.</p> <p>4 THE WITNESS: What I was just</p> <p>5 describing that no particles can be seen</p> <p>6 lost in the laser-cut mesh and that the</p> <p>7 structure of the laser-cut mesh remains</p> <p>8 intact so that the integrity of the mesh</p> <p>9 across the full width of the sample</p> <p>10 still holds in contrast to the</p> <p>11 mechanically cut mesh where the</p> <p>12 integrity of that mesh, the structure</p> <p>13 has been lost, and there's a degradation</p> <p>14 of the outer wale of the knit.</p> <p>15 BY MR. GOSS:</p> <p>16 Q. Let's go to the next exhibit, the</p> <p>17 second part of the slide.</p> <p>18 And what's that exhibit number?</p> <p>19 A. 32.</p> <p>20 Q. Let's go to Exhibit 32. And just</p> <p>21 go to the end. First of all, on Exhibit 32,</p> <p>22 does he continue to conduct elongation</p> <p>23 testing and some things you've described?</p> <p>24 A. Yes.</p> <p>25 Q. And then what is his summary there</p>	<p style="text-align: right;">Page 436</p> <p>1 Q. And about reducing risk.</p> <p>2 A. Yes.</p> <p>3 Q. Based upon those standards and</p> <p>4 based upon the documents that you've seen in</p> <p>5 Ethicon's files, what would a reasonable,</p> <p>6 prudent manufacturer have done?</p> <p>7 MS. SUTHERLAND: Objection.</p> <p>8 THE WITNESS: They would have</p> <p>9 done the appropriate testing to -- first</p> <p>10 of all, they would, as I have mentioned,</p> <p>11 on the mechanically cut mesh, they</p> <p>12 should have implemented corrective and</p> <p>13 preventive action. Looking at laser-cut</p> <p>14 mesh could be one of those techniques,</p> <p>15 methods that they use to do that.</p> <p>16 But then, although they showed</p> <p>17 here that the laser-cut mesh resisted</p> <p>18 the same degradation, then they would</p> <p>19 also need to evaluate the potential</p> <p>20 impact on safety and effectiveness of</p> <p>21 the laser-cut mesh as well before they</p> <p>22 would implement it.</p> <p>23 BY MR. GOSS:</p> <p>24 Q. Okay. So here we are again August</p> <p>25 of 2006. Have you seen any documents in the</p>
<p style="text-align: right;">Page 435</p> <p>1 at the back page of Exhibit 32?</p> <p>2 MS. SUTHERLAND: Objection.</p> <p>3 BY MR. GOSS:</p> <p>4 Q. What does he conclude?</p> <p>5 A. He concludes "That the laser-cut</p> <p>6 mesh resists degradation of the knit</p> <p>7 construction, resists particle loss and</p> <p>8 permanent narrowing better than the</p> <p>9 mechanically cut mesh," and although there's</p> <p>10 some variation in the results and some of</p> <p>11 the mechanically cut mesh held up better</p> <p>12 than others, overall, the finding holds true</p> <p>13 across all the tested articles that their</p> <p>14 laser-cut mesh provides more consistent test</p> <p>15 results, good results.</p> <p>16 Q. Is roping an adverse risk?</p> <p>17 A. Yes.</p> <p>18 MS. SUTHERLAND: Objection.</p> <p>19 BY MR. GOSS:</p> <p>20 Q. Okay. And we've talked about the</p> <p>21 standards?</p> <p>22 A. Yes.</p> <p>23 Q. Global Harmonization Task Force</p> <p>24 standards?</p> <p>25 A. Yes.</p>	<p style="text-align: right;">Page 437</p> <p>1 company's files where they have even</p> <p>2 suggested that they should even implement</p> <p>3 any clinical testing?</p> <p>4 MS. SUTHERLAND: Objection.</p> <p>5 THE WITNESS: No.</p> <p>6 BY MR. GOSS:</p> <p>7 Q. Would a reasonable and prudent</p> <p>8 manufacturer at that time -- at least at</p> <p>9 that time have conducted clinical tests?</p> <p>10 MS. SUTHERLAND: Objection.</p> <p>11 THE WITNESS: Yes.</p> <p>12 BY MR. GOSS:</p> <p>13 Q. Okay. Let's go to -- I'll hand you</p> <p>14 what's been marked as Exhibit 34.</p> <p>15 (Exhibit Number 34 was</p> <p>16 marked for identification.)</p> <p>17 BY MR. GOSS:</p> <p>18 Q. And ask you is that a document from</p> <p>19 Ethicon's files that you reviewed?</p> <p>20 A. Yes, it is.</p> <p>21 Q. Is it a document that you relied</p> <p>22 upon in forming your opinions?</p> <p>23 A. Yes, it is.</p> <p>24 Q. And it appears to be another one of</p> <p>25 these -- this email from Alison London</p>

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<p style="text-align: right;">Page 438</p> <p>1 Brown, who the document describes is a 2 product director, incontinence and pelvic 3 floor repair, Gynecare worldwide division of 4 Ethicon. 5 Are you familiar with who Alison 6 London Brown is? 7 A. Yes, I am. 8 Q. And it's -- appears to be a to a 9 number of marketing people. Isn't Kevin 10 Mahar in marketing? 11 A. To the best of my recollection, 12 yes. 13 Q. All right. And so what I really 14 want to ask you about is the second 15 paragraph there. I want you to explain to 16 the jury that second paragraph and if it's 17 important. 18 MS. SUTHERLAND: Objection. 19 BY MR. GOSS: 20 Q. "The basic story here is that the 21 current mesh, MCM" -- is that mechanically 22 cut mesh? 23 A. Yes. 24 Q. "Is perceived by some physicians as 25 inferior, and we do get a high number of</p>	<p style="text-align: right;">Page 440</p> <p>1 of the issues with the mechanically cut mesh 2 losing particles and stretching to the point 3 of even being a string so that it ropes, and 4 the laser-cut material doesn't have those 5 same issues. 6 Q. Do you remember when we talked 7 about the Global Harmonization Task Force 8 standards? 9 A. Yes. 10 Q. Where we talked about minimizing 11 risk, if possible? 12 A. Yes. 13 MS. SUTHERLAND: Objection. 14 BY MR. GOSS: 15 Q. Applying that standard -- applying 16 that standard to this information, what 17 would a reasonable and prudent manufacturer 18 do? 19 MS. SUTHERLAND: Objection. 20 THE WITNESS: They would do the 21 appropriate testing. They would do the 22 appropriate testing to -- of the 23 laser-cut mesh to substantiate that the 24 laser-cut mesh, by the way it's cut, 25 even though it doesn't lose the</p>
<p style="text-align: right;">Page 439</p> <p>1 complaints on linting and roping" -- roping 2 is what we just talked about; right? 3 A. Yes. 4 Q. And they're getting a high number 5 of complaints? 6 A. That's correct. 7 Q. "Mesh particles falling off and the 8 material stretching to the point of being a 9 string. The new material would dramatically 10 reduce the incident of linting and should 11 all but eliminate the roping as it stays 12 nice it flat." 13 And they're talking about laser-cut 14 mesh; is that right? 15 A. Yes. 16 Q. Okay. So tell us the importance of 17 that -- 18 MS. SUTHERLAND: Objection. 19 BY MR. GOSS: 20 Q. -- if any. 21 A. Just that part? 22 Q. Yeah, what we just read. 23 A. Basically, she's saying that -- 24 reiterating their knowledge of the numbers 25 of complaints that they have gotten because</p>	<p style="text-align: right;">Page 441</p> <p>1 structural integrity as the mechanically 2 cut mesh does, they would move towards 3 implementing that but also they need to 4 do the benefit-risk assessment for the 5 laser-cut mesh and the appropriate 6 testing to ensure that the changes in 7 its characteristics as a result of 8 cutting with the laser don't affect 9 safety and performance. 10 /// 11 BY MR. GOSS: 12 Q. And let's get our timing back in 13 our heads here. Jennifer Ramirez had her 14 surgery in September of 2010 -- 15 A. That's correct. 16 Q. -- right? 17 And she got mechanically cut mesh; 18 is that right? 19 A. Yes, she did. 20 Q. And at the time of that surgery, 21 was laser-cut mesh available for her? 22 A. Yes, it was available. It became 23 available in fourth quarter of 2006. 24 Q. And mechanically cut mesh was still 25 on the market?</p>

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<p style="text-align: right;">Page 442</p> <p>1 A. Yes, it was.</p> <p>2 Q. And had Ethicon received a number</p> <p>3 of similar complaints to the ones that you</p> <p>4 just discussed, these last couple that we</p> <p>5 just discussed?</p> <p>6 MS. SUTHERLAND: Objection.</p> <p>7 THE WITNESS: Absolutely, yes.</p> <p>8 BY MR. GOSS:</p> <p>9 Q. And when Jennifer got her</p> <p>10 mechanically cut mesh in September of 2010,</p> <p>11 even by that time, had the company done any</p> <p>12 clinical testing to determine whether there</p> <p>13 was a difference in mechanically cut mesh</p> <p>14 versus laser-cut mesh?</p> <p>15 MS. SUTHERLAND: Objection.</p> <p>16 THE WITNESS: No. No testing</p> <p>17 for that, and no testing to determine if</p> <p>18 the linting and the fraying and the</p> <p>19 roping affected safety and performance,</p> <p>20 although they maintained the</p> <p>21 mechanically cut mesh on the market.</p> <p>22 BY MR. GOSS:</p> <p>23 Q. And some of the complaints are</p> <p>24 complaints that the material was stretching</p> <p>25 to the point of being a string?</p>	<p style="text-align: right;">Page 444</p> <p>1 Ethicon's files that you reviewed?</p> <p>2 A. Yes, it is.</p> <p>3 Q. Is it a document that formed the</p> <p>4 basis of your opinions in this case?</p> <p>5 A. Yes, it is.</p> <p>6 Q. Who is Martin Weisberg?</p> <p>7 A. He's the senior medical director --</p> <p>8 at this time, he was senior medical director</p> <p>9 at Ethicon.</p> <p>10 Q. And this document is dated</p> <p>11 April 18, 2006?</p> <p>12 A. That's correct.</p> <p>13 Q. What's a clinical expert report?</p> <p>14 A. It's essentially -- we talked</p> <p>15 earlier -- we referred to the GHTF document</p> <p>16 on clinical evaluation, and it's basically a</p> <p>17 clinical evaluation that's been undertaken</p> <p>18 by Dr. Martin Weisberg, who we just talked</p> <p>19 about, and also a Dr. David Robinson, who is</p> <p>20 a medical director at Ethicon, to assess</p> <p>21 clinically the laser-cut mesh.</p> <p>22 Q. So this document, is this sometimes</p> <p>23 referred to as a CER?</p> <p>24 A. Yes.</p> <p>25 Q. Certified expert report?</p>
<p style="text-align: right;">Page 443</p> <p>1 MS. SUTHERLAND: Objection.</p> <p>2 THE WITNESS: Yes.</p> <p>3 BY MR. GOSS:</p> <p>4 Q. Have you ever heard of the term</p> <p>5 "bow stringing"?</p> <p>6 A. Yes.</p> <p>7 MS. SUTHERLAND: Objection.</p> <p>8 BY MR. GOSS:</p> <p>9 Q. Have you ever heard that in</p> <p>10 connection with the problems that Jennifer</p> <p>11 Ramirez has?</p> <p>12 A. Yes, I have.</p> <p>13 Q. And was Ethicon receiving</p> <p>14 complaints about that type of problem back</p> <p>15 as early as May of 2005?</p> <p>16 A. Yes.</p> <p>17 Q. Okay. I'm going to hand you what's</p> <p>18 been marked as Exhibit 35.</p> <p>19 A. Thank you.</p> <p>20 (Exhibit Number 35 was</p> <p>21 marked for identification.)</p> <p>22 BY MR. GOSS:</p> <p>23 Q. And this document is entitled</p> <p>24 "Clinical Expert Report."</p> <p>25 Is that a document that came from</p>	<p style="text-align: right;">Page 445</p> <p>1 A. Yes.</p> <p>2 Q. So the CER was intended to assess</p> <p>3 laser-cut mesh?</p> <p>4 MS. SUTHERLAND: Objection.</p> <p>5 THE WITNESS: Yes.</p> <p>6 BY MR. GOSS:</p> <p>7 Q. Okay. Well, did they endeavor to</p> <p>8 assess laser-cut mesh?</p> <p>9 A. The only testing that was done to</p> <p>10 assess the laser-cut mesh was benchtop</p> <p>11 testing, and it was not done with laser-cut</p> <p>12 mesh. It was done with ultrasonically --</p> <p>13 let's see. Some of the testing was done</p> <p>14 with ultrasonically-cut mesh, but there was</p> <p>15 no testing in animals, no testing in humans.</p> <p>16 Q. What do you mean by "benchtop</p> <p>17 testing"?</p> <p>18 A. Like the pictures we -- for</p> <p>19 example, like the pictures we were just</p> <p>20 looking at where there was -- it was a</p> <p>21 tensile strength test to look at the</p> <p>22 elongation of the mesh. That would be a</p> <p>23 type of benchtop testing, burst strength,</p> <p>24 measurement of pore size, measurement of</p> <p>25 various characteristics of the mesh on a</p>

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<p style="text-align: right;">Page 446</p> <p>1 benchtop laboratory setting.</p> <p>2 Q. It has nothing to do with animal</p> <p>3 testing?</p> <p>4 A. No.</p> <p>5 Q. Has nothing to do with human</p> <p>6 testing?</p> <p>7 A. Not this type of testing, no.</p> <p>8 Q. At this time -- let's talk about</p> <p>9 the background section there. Does it</p> <p>10 describe for us the reason they're doing</p> <p>11 this testing?</p> <p>12 A. Yes.</p> <p>13 Q. Explain to the jury why they're</p> <p>14 doing -- why they purport to be doing the</p> <p>15 testing.</p> <p>16 MS. SUTHERLAND: Objection.</p> <p>17 THE WITNESS: Their rationale</p> <p>18 for doing this is to switch from</p> <p>19 mechanically cut as a response to, as</p> <p>20 they term it, customer needs, that</p> <p>21 customers expressed a desire for a mesh</p> <p>22 with smoother edges rather than edges</p> <p>23 with the ends of individual fibers</p> <p>24 exposed, which is a reference to the</p> <p>25 fraying, and also they note that</p>	<p style="text-align: right;">Page 448</p> <p>1 yes.</p> <p>2 Q. Why would a company, if you know,</p> <p>3 why would they test ultrasound mesh instead</p> <p>4 of laser-cut mesh if they're trying to</p> <p>5 determine that the scope -- as they say on</p> <p>6 the front page, "The project scope applies</p> <p>7 to Prolene mesh laser cutting," and yet they</p> <p>8 don't test laser cutting.</p> <p>9 MS. SUTHERLAND: Objection.</p> <p>10 ///</p> <p>11 BY MR. GOSS:</p> <p>12 Q. Do you know any plausible reason</p> <p>13 why they did that that you've uncovered in</p> <p>14 their files?</p> <p>15 A. No. There was -- this was</p> <p>16 inappropriate.</p> <p>17 Q. Did you find anything in their</p> <p>18 files that said, "Hey, we're out of</p> <p>19 laser-cut mesh. Let's use some ultrasonic</p> <p>20 mesh"?</p> <p>21 A. No.</p> <p>22 Q. Based upon your 40-plus years of</p> <p>23 experience and your 40-plus years of</p> <p>24 experience where you've designed testing,</p> <p>25 clinical testing, benchmark testing, and</p>
<p style="text-align: right;">Page 447</p> <p>1 customer feedback has indicated there</p> <p>2 was some dissatisfaction with potential</p> <p>3 fraying of the mechanically cut mesh.</p> <p>4 BY MR. GOSS:</p> <p>5 Q. Okay. And going to page 4, what</p> <p>6 was the results of their testing with</p> <p>7 respect to particle loss?</p> <p>8 A. That, on average, the mechanically</p> <p>9 cut mesh lost approximately twice the number</p> <p>10 of particles as the laser-cut mesh.</p> <p>11 Q. Did they ever, at this time or any</p> <p>12 time after, do any clinical testing to</p> <p>13 determine whether losing particle loss --</p> <p>14 more particle loss was significant?</p> <p>15 A. No.</p> <p>16 Q. Would a reasonable and prudent</p> <p>17 manufacturer have done that?</p> <p>18 MS. SUTHERLAND: Objection.</p> <p>19 THE WITNESS: Absolutely.</p> <p>20 BY MR. GOSS:</p> <p>21 Q. They note that this study was</p> <p>22 performed -- this is on page 4 -- that this</p> <p>23 study was performed on ultrasonic-cut mesh</p> <p>24 and not laser-cut mesh; is that right?</p> <p>25 A. That's what this document states,</p>	<p style="text-align: right;">Page 449</p> <p>1 advised companies on the appropriate testing</p> <p>2 to do for a product, would that in any way</p> <p>3 be appropriate testing for this product?</p> <p>4 MS. SUTHERLAND: Objection.</p> <p>5 THE WITNESS: Absolutely not.</p> <p>6 BY MR. GOSS:</p> <p>7 Q. And to rely on testing like that,</p> <p>8 would it be a violation of the standard of</p> <p>9 care?</p> <p>10 MS. SUTHERLAND: Objection.</p> <p>11 THE WITNESS: Yes, it would.</p> <p>12 BY MR. GOSS:</p> <p>13 Q. Okay. I'm handing you what's been</p> <p>14 marked as Exhibit 36.</p> <p>15 (Exhibit Number 36 was</p> <p>16 marked for identification.)</p> <p>17 BY MR. GOSS:</p> <p>18 Q. Is that a document that you found</p> <p>19 in Ethicon's files?</p> <p>20 A. Yes, it is.</p> <p>21 Q. Is it a document that you reviewed?</p> <p>22 A. Yes, it is.</p> <p>23 Q. Is it a document you relied upon in</p> <p>24 forming your opinions in this case?</p> <p>25 A. Yes, it is.</p>

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<p style="text-align: right;">Page 450</p> <p>1 Q. And is it an Ethicon document?</p> <p>2 A. Yes.</p> <p>3 Q. And it's another one of these</p> <p>4 string emails, is it not?</p> <p>5 A. Yes.</p> <p>6 Q. Actually, I guess, it's just --</p> <p>7 A. It's a couple.</p> <p>8 Q. Just a couple. And it involves</p> <p>9 Gene Kammerer. We've talked about him?</p> <p>10 A. Yes.</p> <p>11 Q. He's an engineering fellow?</p> <p>12 A. Correct.</p> <p>13 Q. He's the one that did the slides we</p> <p>14 were talking about?</p> <p>15 A. That's correct.</p> <p>16 Q. And then it also has Sunny Rha,</p> <p>17 who's -- this identifies as operations</p> <p>18 integrations, Ethicon, a Johnson &amp; Johnson</p> <p>19 Company; is that right?</p> <p>20 A. Yes.</p> <p>21 Q. I don't want to spend a lot of time</p> <p>22 on this, but I simply want to ask: What are</p> <p>23 they talking about here at the beginning of</p> <p>24 this about the French standards of particle</p> <p>25 loss? Explain to the jury what this</p>	<p style="text-align: right;">Page 452</p> <p>1 percent of the mesh lost and the</p> <p>2 structural integrity of that mesh</p> <p>3 affected by the particle loss, how that</p> <p>4 impacts both safety and effectiveness</p> <p>5 when implanted.</p> <p>6 BY MR. GOSS:</p> <p>7 Q. I'm going to hand you what's been</p> <p>8 marked as Exhibit 37.</p> <p>9 A. Thank you.</p> <p>10 ///</p> <p>11 (Exhibit Number 37 was</p> <p>12 marked for identification.)</p> <p>13 BY MR. GOSS:</p> <p>14 Q. Is that a document that came from</p> <p>15 Ethicon's files that you reviewed?</p> <p>16 A. Yes, it is.</p> <p>17 Q. Is it a document that you relied</p> <p>18 upon in forming your opinions in this case?</p> <p>19 A. Yes, it is.</p> <p>20 Q. And it's dated November 18 of 2003?</p> <p>21 A. Yes.</p> <p>22 Q. Again, this is a document cc'ing</p> <p>23 Gene Kammerer. We talked about him?</p> <p>24 A. Right.</p> <p>25 Q. We talked about Brian Luscombe.</p>
<p style="text-align: right;">Page 451</p> <p>1 discussion entailed.</p> <p>2 MS. SUTHERLAND: Objection.</p> <p>3 THE WITNESS: That there's a</p> <p>4 new French standard test method for</p> <p>5 determining particle loss, and the</p> <p>6 difference between the TVT and the</p> <p>7 competitors in that test is significant,</p> <p>8 particularly almost tenfold more for TVT</p> <p>9 particle loss with 8 percent of the mesh</p> <p>10 falling off.</p> <p>11 BY MR. GOSS:</p> <p>12 Q. Is that mechanically cut mesh?</p> <p>13 A. Yes.</p> <p>14 Q. Okay. And the year of that is</p> <p>15 June, 2006; is that right?</p> <p>16 A. Yes.</p> <p>17 Q. Why is that document important, if</p> <p>18 at all, in your opinion?</p> <p>19 MS. SUTHERLAND: Objection.</p> <p>20 THE WITNESS: It documents that</p> <p>21 8 percent of the mesh falls off, and</p> <p>22 that's -- so you have 8 percent of</p> <p>23 particles that potentially are loose,</p> <p>24 either in the package or in the patient,</p> <p>25 with no testing to determine that with 8</p>	<p style="text-align: right;">Page 453</p> <p>1 A. Yes.</p> <p>2 Q. It's from Marty Weisberg, and he is</p> <p>3 the senior medical director of Gynecare?</p> <p>4 A. That's correct.</p> <p>5 Q. I just want you to focus on the</p> <p>6 first paragraph of that document and tell me</p> <p>7 whether or not this is a document that was</p> <p>8 important to your opinions and, if so, why?</p> <p>9 MS. SUTHERLAND: Objection.</p> <p>10 THE WITNESS: Yes. This</p> <p>11 document is important to my opinions.</p> <p>12 It documents that as far back as 2003,</p> <p>13 November, 2003, actually prior to the</p> <p>14 marketing of the TVT-O, that the company</p> <p>15 had received a recorded total of 58</p> <p>16 complaints of fraying, and it also</p> <p>17 states that the fraying is inherent in</p> <p>18 the design and construction of the</p> <p>19 product and that any tension applied</p> <p>20 exacerbates, makes that loss of</p> <p>21 integrity and fraying worse, and that</p> <p>22 when the fraying happens, just as we've</p> <p>23 been talking about, several things</p> <p>24 occur.</p> <p>25 The mesh elongates in places</p>

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<p style="text-align: right;">Page 454</p> <p>1 and narrows in places, and the small 2 particles may break off. 3 BY MR. GOSS: 4 Q. Again, is that important to you 5 because it put the company on notice as to 6 problems? 7 MS. SUTHERLAND: Objection. 8 THE WITNESS: Absolutely. 9 BY MR. GOSS: 10 Q. Does that put the company on notice 11 as to any problems? 12 A. Absolutely, it does. 13 MS. SUTHERLAND: Quit fixing 14 your questions. 15 BY MR. GOSS: 16 Q. Okay. Let me hand you what's been 17 marked as Exhibit 38. 18 (Exhibit Number 38 was 19 marked for identification.) 20 BY MR. GOSS: 21 Q. Do you recognize this document? 22 A. Yes, I do. 23 Q. Is this a document that came out of 24 Ethicon's files? 25 A. Yes, it is.</p>	<p style="text-align: right;">Page 456</p> <p>1 loss and potential for mesh fraying? 2 MS. SUTHERLAND: Objection. 3 BY MR. GOSS: 4 Q. About third paragraph down in bold. 5 A. Oh, that part. Sorry. I wasn't 6 sure which part you were referencing. 7 That the laser-cut mesh will be 8 available for customers who are concerned 9 about particle loss and fraying with the 10 mechanically cut mesh. 11 Q. It states, "We decided to explore 12 the impact of cutting our present TVT 13 products on the laser cutter. We found by 14 doing so, we reduced particulate loss as 15 well as the potential for mesh fraying." 16 Is that important? 17 MS. SUTHERLAND: Objection. 18 THE WITNESS: Yes. 19 BY MR. GOSS: 20 Q. Why is that important? 21 A. Again, and this is just another 22 document that discusses what the other 23 documents that we've been reviewing 24 addresses that the company is aware that 25 they have a methodology to reduce that</p>
<p style="text-align: right;">Page 455</p> <p>1 Q. Is it a document that you relied 2 upon in forming your opinions in this case? 3 A. Yes, it is. 4 Q. It appears to be a product pointer. 5 Is it something that seems to be a marketing 6 document? 7 A. Yes. 8 Q. Dated June 26, 2006? 9 A. That's correct. 10 Q. And I don't want to spend a long 11 time on this, but let's just -- is this 12 something that's directed to the sales 13 force? 14 A. Yes. 15 Q. And what's going on here? 16 A. The company is going to market the 17 laser-cut mesh, but they are also going to 18 continue to have the mechanically cut mesh 19 on the market as well. 20 And so they're advising -- they're 21 advising with regard to that and providing 22 the rationale for why they're going to 23 maintain both the mechanically cut and the 24 laser-cut meshes on the market. 25 Q. What did they say about particle</p>	<p style="text-align: right;">Page 457</p> <p>1 particle loss and reduce fraying. 2 Q. As of June 26, 2006, have they 3 still not conducted any clinical tests? 4 A. They still have not. 5 Q. In fact, I think on the -- they 6 say, "As a result of the laser-cutting 7 process, the edges of the mesh will appear 8 and may feel slightly different upon 9 stretching. We have conducted several bench 10 tests." 11 Are those the tests we've been 12 talking about? 13 A. Yes. 14 Q. Again, what's the difference 15 between bench test and clinical test? 16 A. Well, bench testing is done in a 17 laboratory setting on a benchtop. It's 18 things like stretching the mesh and the 19 elongation tests that we talked about. 20 Tests of the physical properties, the 21 mechanical properties of the mesh. 22 Q. Never been tested -- they weren't 23 testing it in a woman's pelvis, were they? 24 A. No, they were not. 25 Q. And the products on the market at</p>

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<p style="text-align: right;">Page 458</p> <p>1 that time, 2006, never been tested in a  2 woman's pelvis; is that right?  3 MS. SUTHERLAND: Objection.  4 THE WITNESS: That's correct.  5 BY MR. GOSS:  6 Q. Laser-cut mesh, at this point,  7 before it's been launched, has it been  8 tested in a woman's pelvis?  9 A. Can you repeat your prior question?  10 That's what I understood it to be.  11 Q. They're about to launch laser-cut  12 mesh.  13 A. Yes.  14 Q. At that point, has it even been  15 tested in a woman's pelvis?  16 A. No. No.  17 Q. Okay. And I believe when I showed  18 you early on some of the testimony that you  19 had reviewed, Piet Hinoul was somebody that  20 you had reviewed their testimony?  21 A. Yes.  22 (Exhibit Number 39 was  23 marked for identification.)  24 BY MR. GOSS:  25 Q. I'm handing you what's been marked</p>	<p style="text-align: right;">Page 460</p> <p>1 Do you want me to help you?  2 A. I was just looking for the start of  3 his testimony. Do you know what page number  4 it starts? Based on my prior review, it  5 looks to be the same, but I will verify.  6 Q. On page 65, there is the total  7 transcript, and you will see the excerpt  8 that I've handed you is an excerpt from  9 there.  10 A. Yes.  11 Q. So reading from page 65 of that  12 transcript, and I'd like for you to read to  13 yourself page 65, lines 12, through page 66,  14 line 12, and let me know if that's testimony  15 that you reviewed in forming your opinions  16 in this case and whether it's something you  17 relied upon.  18 A. Yes, I did.  19 Q. Okay. And this is March -- this  20 testimony is March 27, 2014?  21 A. Correct.  22 Q. Question -- this is Piet Hinoul.  23 He's medical director; right?  24 A. Yes.  25 Q. Worldwide medical director?</p>
<p style="text-align: right;">Page 459</p> <p>1 as Exhibit 39 entitled "Trial Proceedings."  2 And this, on the front page,  3 identified -- is identified as trial  4 proceedings from the Linda Batiste trial in  5 Dallas, Texas.  6 Are you familiar with that trial?  7 A. I am.  8 Q. Did you testify at that trial?  9 A. Yes, I did.  10 Q. And it's dated March 27, 2014.  11 Do you recognize this as the  12 testimony of Piet Hinoul?  13 A. Yes, I do.  14 Q. In fact, let me -- I'm just going  15 to go ahead -- I'm not going to use it, but  16 I want to put it in the record.  17 (Exhibit Number 40 was  18 marked for identification.)  19 BY MR. GOSS:  20 Q. I'm going to hand you Exhibit 40,  21 and I'll represent to you that Exhibit 40 is  22 the trial testimony of Piet Hinoul, and what  23 Exhibit 39 is, if you want to assure  24 yourself of it, is some excerpts taken from  25 that trial testimony.</p>	<p style="text-align: right;">Page 461</p> <p>1 A. Yes, he was.  2 Q. For Ethicon.  3 A. Yes.  4 Q. Pretty high up.  5 A. Very much so.  6 Q. "And that was the story that was  7 told to doctors, correct, that they're  8 identical, essentially" -- that they're  9 identical, essentially; right?"  10 Talking about mechanically cut  11 versus laser cut; right?  12 A. Yes.  13 Q. "And you told doctors that one  14 won't cause any more medical problems than  15 the other; right?"  16 "ANSWER: And that's what we still  17 say today, yes.  18 "And there's never been a study,  19 even in the literature, there has never been  20 a study that specifically looked at the  21 mechanically cut mesh versus the laser-cut  22 mesh to determine whether or not one is more  23 dangerous than the others; correct?"  24 "ANSWER: Correct?  25 "Of all those thousands of doctors</p>

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<p style="text-align: right;">Page 462</p> <p>1 that you're paying, many of which you're</p> <p>2 paying to do studies, never any of them, you</p> <p>3 never asked any of them to do that study;</p> <p>4 correct?</p> <p>5 "ANSWER: You say a lot of the</p> <p>6 things in your sentence here.</p> <p>7 "QUESTION: Have you ever asked any</p> <p>8 doctor, any paid consultant that you're</p> <p>9 asking to do studies, to do a study</p> <p>10 specifically looking whether or not there is</p> <p>11 more injuries to women with mechanically cut</p> <p>12 mesh versus laser-cut mesh? Have you ever</p> <p>13 asked anybody to do that?</p> <p>14 "We have not."</p> <p>15 Did you rely upon that testimony in</p> <p>16 forming your opinions?</p> <p>17 A. Yes, I did.</p> <p>18 MS. SUTHERLAND: Objection.</p> <p>19 BY MR. GOSS:</p> <p>20 Q. And what's your opinion about that</p> <p>21 testimony?</p> <p>22 MS. SUTHERLAND: Well,</p> <p>23 objection.</p> <p>24 THE WITNESS: There was never</p> <p>25 any testing done. That's a violation of</p>	<p style="text-align: right;">Page 464</p> <p>1 laser-cut mesh?</p> <p>2 MS. SUTHERLAND: Objection.</p> <p>3 THE WITNESS: Definitely, yes.</p> <p>4 BY MR. GOSS:</p> <p>5 Q. Okay. Did your review and</p> <p>6 investigation of Ethicon's files, did you</p> <p>7 find any documents or any PowerPoints or</p> <p>8 anything or any emails that reflected why</p> <p>9 Ethicon kept mechanically cut mesh on the</p> <p>10 market instead of just selling laser-cut</p> <p>11 mesh?</p> <p>12 MS. SUTHERLAND: Objection.</p> <p>13 THE WITNESS: Yes, I did.</p> <p>14 BY MR. GOSS:</p> <p>15 Q. And what did those documents</p> <p>16 reflect?</p> <p>17 A. The TVT was the first polypropylene</p> <p>18 sling kit that was on the market and had</p> <p>19 been on the market since 1998. The company</p> <p>20 had clinical data from the inventor and</p> <p>21 associates of the inventor dating back to</p> <p>22 1996 to 1998 on the product.</p> <p>23 Compared to other meshes that were</p> <p>24 on the market, they had what they considered</p> <p>25 a competitive advantage because they could</p>
<p style="text-align: right;">Page 463</p> <p>1 the standard of care. Testing should</p> <p>2 have been long done long before this.</p> <p>3 BY MR. GOSS:</p> <p>4 Q. As of March 2014, still hadn't done</p> <p>5 any testing?</p> <p>6 A. Still hadn't done any. Should have</p> <p>7 been done prior to -- prior to launch.</p> <p>8 Q. What should have been done prior to</p> <p>9 launch?</p> <p>10 A. Clinical testing should have been</p> <p>11 done prior to launch of the laser-cut mesh,</p> <p>12 but when they first became aware of the</p> <p>13 problems with the mechanically cut mesh,</p> <p>14 they should also have done clinical testing.</p> <p>15 To determine if they were going to</p> <p>16 maintain that on the market, they should</p> <p>17 have done clinical testing to determine the</p> <p>18 impact on safety and effectiveness.</p> <p>19 Q. Okay. So we've analyzed these</p> <p>20 documents where is it safe to say -- is it</p> <p>21 fair to say that we've analyzed some</p> <p>22 documents that have put the company on</p> <p>23 notice or at least advised the company that</p> <p>24 there may be more particle loss and more</p> <p>25 fraying with mechanically cut mesh than</p>	<p style="text-align: right;">Page 465</p> <p>1 claim having clinical data on the TVT</p> <p>2 retropubic product dating back to the late</p> <p>3 1990s, and they didn't want to lose the</p> <p>4 advantage of that competitive -- that</p> <p>5 competitive clinical data. Or that clinical</p> <p>6 data that they felt was a clinical</p> <p>7 advantage.</p> <p>8 Q. Clinical history?</p> <p>9 A. Yes. Clinical edge.</p> <p>10 ///</p> <p>11 (Exhibit Number 41 was</p> <p>12 marked for identification.)</p> <p>13 BY MR. GOSS:</p> <p>14 Q. Okay. I'm going to hand you what's</p> <p>15 been marked as Exhibit 41.</p> <p>16 A. Thank you.</p> <p>17 Q. Is this a document that came from</p> <p>18 Ethicon's files that you reviewed?</p> <p>19 A. Yes, it is.</p> <p>20 Q. Is it a document you relied upon in</p> <p>21 forming your opinions in this case?</p> <p>22 A. Yes.</p> <p>23 Q. And it's from Allison London Brown.</p> <p>24 Who is Allison London Brown? I believe</p> <p>25 she's a product director?</p>

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<p style="text-align: right;">Page 466</p> <p>1 A. Yes.</p> <p>2 Q. To Dan Smith, who we talked about</p> <p>3 is an engineer.</p> <p>4 A. Correct.</p> <p>5 Q. Was he project lead?</p> <p>6 A. Yes.</p> <p>7 Q. And it's "Mechanical-Cut Versus</p> <p>8 Laser-Cut Mesh Rationale." That's what we</p> <p>9 were just talking about, wasn't it, what was</p> <p>10 the reasoning, what was the rationale?</p> <p>11 A. That's correct.</p> <p>12 Q. Okay. And let's go about halfway</p> <p>13 down that document. Do you see where it</p> <p>14 says, "Additionally," and this is Allison</p> <p>15 London Brown giving the rationale.</p> <p>16 A. Yes.</p> <p>17 Q. "Additionally, the mechanically cut</p> <p>18 TVT mesh can be stretched to deformation,</p> <p>19 creating a rope if not placed properly."</p> <p>20 We've seen other documents about</p> <p>21 roping?</p> <p>22 A. Yes, we have.</p> <p>23 Q. Okay. "Some physicians perceived</p> <p>24 could irritate/damage the urethra, as</p> <p>25 competition honed in, this aspect of the</p>	<p style="text-align: right;">Page 468</p> <p>1 fraying and roping.</p> <p>2 BY MR. GOSS:</p> <p>3 Q. If a manufacturer believed that</p> <p>4 mechanically cut mesh -- if they believed</p> <p>5 that it caused roping, and that manufacturer</p> <p>6 believed that laser-cut mesh eliminated</p> <p>7 roping, what do the safety principles say</p> <p>8 they should do?</p> <p>9 MS. SUTHERLAND: Objection.</p> <p>10 THE WITNESS: They should</p> <p>11 validate through clinical testing the</p> <p>12 laser-cut mesh to assure that the</p> <p>13 difference in characteristics in the</p> <p>14 laser-cut mesh versus the mechanically</p> <p>15 cut mesh didn't create safety and</p> <p>16 effectiveness issue and move to market.</p> <p>17 Assuming safety and</p> <p>18 effectiveness was demonstrated, moved</p> <p>19 towards marketing the laser cut and</p> <p>20 discontinuing the mechanically cut.</p> <p>21 BY MR. GOSS:</p> <p>22 Q. Okay. Then under the second point</p> <p>23 there, I believe, this relates to what you</p> <p>24 were testifying about, the clinical data and</p> <p>25 preserving the clinical data. They say, "In</p>
<p style="text-align: right;">Page 467</p> <p>1 Gynecare TVT product."</p> <p>2 It says, "In order to alleviate</p> <p>3 concerns/meet customers needs, the team</p> <p>4 identified two corrections."</p> <p>5 One talks about the sheath. But</p> <p>6 the second one says, "The use of laser</p> <p>7 cutting for processing which minimized</p> <p>8 particulate loss as the material was</p> <p>9 somewhat melted as it was cut, thus keeping</p> <p>10 mostly cut loops intact."</p> <p>11 Is that consistent with the other</p> <p>12 documents you've seen?</p> <p>13 MS. SUTHERLAND: Objection.</p> <p>14 THE WITNESS: Yes, it is.</p> <p>15 BY MR. GOSS:</p> <p>16 Q. And why is that important?</p> <p>17 MS. SUTHERLAND: Objection.</p> <p>18 THE WITNESS: That, again, is a</p> <p>19 document -- another document that</p> <p>20 substantiates that they knew that there</p> <p>21 was an issue with mechanically cut mesh.</p> <p>22 They knew that laser cutting mesh</p> <p>23 minimized the particle loss and that</p> <p>24 that would alleviate the concerns of</p> <p>25 some customers who were concerned about</p>	<p style="text-align: right;">Page 469</p> <p>1 order to continue to claim" -- Allison</p> <p>2 London Brown says, "In order to continue to</p> <p>3 claim the use of seven-year data in all</p> <p>4 clinical studies, the MCM and LCM needed to</p> <p>5 show similar properties with physical</p> <p>6 properties being used as a proxy for the</p> <p>7 clinical needs."</p> <p>8 What does that mean?</p> <p>9 MS. SUTHERLAND: Objection.</p> <p>10 THE WITNESS: It means that</p> <p>11 they made the determination -- they</p> <p>12 wanted to continue to use the clinical</p> <p>13 data that they had dating back to the</p> <p>14 late 1990s on the mechanically cut mesh,</p> <p>15 which was used in the initial TVT</p> <p>16 product, and in order to do that, they</p> <p>17 made the determination that they would</p> <p>18 assess physical properties, and if they</p> <p>19 were similar enough based on Ethicon's</p> <p>20 determination of what similar meant,</p> <p>21 then they would use that instead of</p> <p>22 doing clinical testing.</p> <p>23 BY MR. GOSS:</p> <p>24 Q. If Ethicon admitted that laser-cut</p> <p>25 mesh was superior to mechanically cut mesh</p>

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<p style="text-align: right;">Page 470</p> <p>1 and offered only laser-cut mesh, is this  2 saying that they would not be able to rely  3 upon that seven-year data that they had  4 collected?  5 MS. SUTHERLAND: Objection.  6 THE WITNESS: Yes.  7 BY MR. GOSS:  8 Q. And if they were unable to rely on  9 the seven-year data that they have  10 collected, what would be the effect of that?  11 MS. SUTHERLAND: Objection.  12 THE WITNESS: Well, their  13 concern is if they can't show similarity  14 for the laser-cut mesh, similar enough  15 that they can maintain the use of that  16 seven-year data, that they lose that  17 competitive advantage because other  18 polypropylene mesh slings that were on  19 the market by this time didn't have that  20 old data.  21 So if you look at some of the  22 documents we discussed earlier today,  23 both patient labeling, promotional  24 labeling, as I recall as I sit here  25 today, they discuss the long-term data.</p>	<p style="text-align: right;">Page 472</p> <p>1 MS. SUTHERLAND: Objection.  2 THE WITNESS: Yes. That was  3 their concern.  4 BY MR. GOSS:  5 Q. Should a company ever -- strike  6 that.  7 Should a device manufacturer ever  8 put profits over safety?  9 MS. SUTHERLAND: Objection.  10 THE WITNESS: Never.  11 BY MR. GOSS:  12 Q. Is that a violation of the standard  13 of care?  14 THE WITNESS: Definitely.  15 MS. SUTHERLAND: Objection.  16 BY MR. GOSS:  17 Q. Is that a violation of the safety  18 principles that we discussed today?  19 MS. SUTHERLAND: Objection.  20 THE WITNESS: Yes, it is.  21 MR. GOSS: Let me go for about  22 another ten minutes and that will be a  23 good stopping point. Okay? Not forever  24 but just a break. But we've made good  25 time, and I'm going to cut a lot out of</p>
<p style="text-align: right;">Page 471</p> <p>1 They reference the data that goes back  2 to the late 1990s, and so the company  3 relied on that as a competitive  4 advantage.  5 BY MR. GOSS:  6 Q. If they admitted that laser-cut  7 mesh was different and better than  8 mechanically cut mesh, could they continue  9 to rely on that data?  10 MS. SUTHERLAND: Objection.  11 THE WITNESS: No. They would  12 have to do some kind of testing to  13 assess whether or not they could rely on  14 that data. It would not be the same.  15 BY MR. GOSS:  16 Q. And would that cost money?  17 A. Yes.  18 Q. Would that cost time?  19 A. Yes.  20 Q. Would that cost profits?  21 MS. SUTHERLAND: Objection.  22 THE WITNESS: Yes.  23 BY MR. GOSS:  24 Q. Would that allow their competitors  25 to gain a competitive edge over them?</p>	<p style="text-align: right;">Page 473</p> <p>1 this.  2 MS. SUTHERLAND: Obviously, I  3 can't leave.  4 MR. GOSS: I'm going to ask the  5 court reporter. You doing fine? You  6 need a break here in about ten minutes?  7 THE REPORTER: Yeah, about ten  8 minutes.  9 MR. GOSS: Can you hold out ten  10 more minutes?  11 BY MR. GOSS:  12 Q. Let me shift gears a little bit.  13 We've discussed this problem that existed --  14 well, there were some discussions internally  15 that we've identified about particle loss;  16 right?  17 A. Yes.  18 Q. And particle loss with mechanically  19 cut mesh; right?  20 A. Correct.  21 Q. Gene Kammerer compared particle  22 loss with mechanically cut mesh and  23 laser-cut mesh?  24 A. That's correct.  25 MS. SUTHERLAND: Objection.</p>

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<p style="text-align: right;">Page 474</p> <p>1 BY MR. GOSS:  2 Q. Now, over and above that particle  3 loss issue that was being discussed within  4 the company, was there an additional issue  5 relating to particle loss with respect to  6 the specific lot of mesh that Jennifer  7 Ramirez received?  8 A. Yes, there was.  9 Q. What was that issue?  10 A. The company received two complaints  11 on that specific lot of particle loss.  12 (Exhibit Number 42 was  13 marked for identification.)  14 BY MR. GOSS:  15 Q. Okay. Let me hand you what's been  16 marked as Exhibit 42.  17 Is this a document that came from  18 Ethicon's files?  19 A. Yes, it is.  20 Q. Is this a document that you  21 reviewed with respect to your opinions?  22 A. Yes, it is.  23 Q. Is it a document that you relied  24 upon with respect to your opinions?  25 A. Yes, it is.</p>	<p style="text-align: right;">Page 476</p> <p>1 MS. SUTHERLAND: Objection.  2 BY MR. GOSS:  3 Q. Specific product code?  4 A. For a specific product code, yes.  5 Q. And that included Jennifer's?  6 MS. SUTHERLAND: Objection.  7 BY MR. GOSS:  8 Q. Or did that include Jennifer's?  9 A. For the product code. This was the  10 product code for mechanically cut mesh.  11 Q. Go to page 3. And this is a  12 PowerPoint we're looking at, is it not?  13 A. Yes.  14 Q. And it says, on the second sentence  15 there on page 3, "The presence of Prolene  16 particles in the blister is common for a  17 manual code compared to laser code."  18 Why is that important?  19 MS. SUTHERLAND: Objection.  20 THE WITNESS: That is stating  21 what we've been discussing that the  22 manually-cut mesh has particle loss and  23 structural integrity degradation where  24 the laser code does not have those  25 same -- the laser-cut product does not</p>
<p style="text-align: right;">Page 475</p> <p>1 Q. And this document is entitled  2 "Particles in TVT-O Blisters"?  3 A. Yes.  4 Q. The second page of Exhibit 42 is  5 "TVT-O Complaints"?  6 A. Yes.  7 Q. It says, "Since July, 2010, six  8 complaints have been recorded for the  9 following issue: Foreign matter in TVT-O  10 blisters."  11 And then it lists the complaints;  12 right?  13 A. Yes.  14 Q. And it lists the product code;  15 right?  16 A. Yes.  17 Q. And is that 810081, is that the  18 same product code that was on the sticker  19 that we discussed earlier today for  20 Jennifer's lot?  21 A. Yes.  22 Q. Okay. So she -- just so I'm clear,  23 they were receiving -- this document says  24 they were receiving complaints about a  25 specific batch; is that right?</p>	<p style="text-align: right;">Page 477</p> <p>1 have those same issues.  2 BY MR. GOSS:  3 Q. Okay. Let me hand you what's been  4 marked as Exhibit 43.  5 (Exhibit Number 43 was  6 marked for identification.)  7 BY MR. GOSS:  8 Q. And this is another one of those  9 string emails; right?  10 A. Yes.  11 Q. And this is an email from -- let's  12 just start in the back, Kathie Chen, who  13 appears to be from J&amp;J in Medical Taiwan; is  14 that right?  15 A. Yes.  16 Q. And she is writing an email to  17 Darlene Kyle; right?  18 A. Yes.  19 Q. This is dated July 1, 2010?  20 A. Yes.  21 Q. Now, Jennifer got her implant  22 September of 2010; right?  23 A. That's correct.  24 Q. And this is July 1 of 2010; right?  25 A. July 5, yes.</p>

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<p style="text-align: right;">Page 478</p> <p>1 Q. I'm sorry. July 5.</p> <p>2 A. Well, there are different dates on</p> <p>3 here. There's July 1 to July 5.</p> <p>4 Q. Couple months before Jennifer's</p> <p>5 implant?</p> <p>6 A. Yes.</p> <p>7 Q. And it says, "Dear Darlene. Good</p> <p>8 day. I've had some quality queries about</p> <p>9 the product TVT obturator system. Could you</p> <p>10 please answer it for me. Today our customer</p> <p>11 found some tiny mesh pieces (about</p> <p>12 2 millimeters) in the unopened tyvek box.</p> <p>13 So they refused to accept the product TVT-O.</p> <p>14 Could you please let me know why these" --</p> <p>15 "why did these tiny mesh pieces fall within</p> <p>16 the sterile package? Is this product with</p> <p>17 tiny mesh pieces safe to be used?"</p> <p>18 And then the response is -- well,</p> <p>19 she then writes again -- does she not? -- on</p> <p>20 the first page following up this email</p> <p>21 string?</p> <p>22 MS. SUTHERLAND: Objection.</p> <p>23 THE WITNESS: Yes.</p> <p>24 BY MR. GOSS:</p> <p>25 Q. She's again saying, "We received</p>	<p style="text-align: right;">Page 480</p> <p>1 opinion?</p> <p>2 A. It's stating -- essentially it's</p> <p>3 saying this is a product defect, and the</p> <p>4 product shouldn't be used.</p> <p>5 Q. Did you see anywhere where Ethicon</p> <p>6 sent any Dear Doctor letter or any Dear</p> <p>7 Healthcare Provider letter or told anybody</p> <p>8 on the outside that this is not normal in</p> <p>9 that product and that the product should not</p> <p>10 be used?</p> <p>11 MS. SUTHERLAND: Objection.</p> <p>12 THE WITNESS: No.</p> <p>13 BY MR. GOSS:</p> <p>14 Q. Do you see where they did any</p> <p>15 voluntary recall or even thought about doing</p> <p>16 a voluntary recall?</p> <p>17 MS. SUTHERLAND: Objection.</p> <p>18 THE WITNESS: No.</p> <p>19 BY MR. GOSS:</p> <p>20 Q. Any discussion of voluntary recall?</p> <p>21 A. Nothing that I've ever seen.</p> <p>22 Q. Any discussion that you saw in</p> <p>23 their files of advising doctors or</p> <p>24 healthcare providers that there may be a</p> <p>25 problem with one of these lots?</p>
<p style="text-align: right;">Page 479</p> <p>1 another three cases, same as yesterday"?</p> <p>2 MS. SUTHERLAND: Objection.</p> <p>3 THE WITNESS: Yes.</p> <p>4 BY MR. GOSS:</p> <p>5 Q. Okay. Then Darlene who she was</p> <p>6 writing to, and Darlene is, as I understand</p> <p>7 it, she's an analyst, worldwide consumer</p> <p>8 customer quality. Does that seem right to</p> <p>9 you? It's not on here, but I think there's</p> <p>10 some emails we're about to see.</p> <p>11 A. That would sound right then. I</p> <p>12 don't recall specifically.</p> <p>13 Q. This is a customer quality or</p> <p>14 product quality issue?</p> <p>15 A. Yes, it is a product quality issue.</p> <p>16 Q. And so Darlene Kyle writes back to</p> <p>17 Kathie and she says with respect to these</p> <p>18 particle losses showing up in the unopened</p> <p>19 package, "No, this is not normal nor do we</p> <p>20 recommend using the product."</p> <p>21 Is that important?</p> <p>22 MS. SUTHERLAND: Objection.</p> <p>23 THE WITNESS: Yes, it is.</p> <p>24 BY MR. GOSS:</p> <p>25 Q. Why is that important to your</p>	<p style="text-align: right;">Page 481</p> <p>1 MS. SUTHERLAND: Objection.</p> <p>2 THE WITNESS: No.</p> <p>3 BY MR. GOSS:</p> <p>4 Q. And, again, this particle loss,</p> <p>5 what we're talking about here is separate</p> <p>6 from the particle loss issue that we've been</p> <p>7 discussing, is it not?</p> <p>8 MS. SUTHERLAND: Objection.</p> <p>9 BY MR. GOSS:</p> <p>10 Q. I mean, this is about a specific</p> <p>11 batch now; right?</p> <p>12 A. They only use the product code, but</p> <p>13 they are talking, as best I can tell, they</p> <p>14 are -- let me just take a moment to look at</p> <p>15 this. They're talking about the product</p> <p>16 code for manually-cut mesh, and it appears</p> <p>17 because it's coming from four cases and one</p> <p>18 complaint coming from the same hospital. I</p> <p>19 don't see that it actually gives the --</p> <p>20 Q. Well, on the second page, it says</p> <p>21 code 810081 within the --</p> <p>22 A. Right. That's the code for TVT-O.</p> <p>23 Q. Okay. Let's move on. Anyway, so</p> <p>24 they received these complaints; right?</p> <p>25 A. Yes.</p>

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<p style="text-align: right;">Page 482</p> <p>1 MS. SUTHERLAND: Objection.  2 BY MR. GOSS:  3 Q. I'm going to hand you what's been  4 marked as Exhibit 44.  5 (Exhibit Number 44 was  6 marked for identification.)  7 BY MR. GOSS:  8 Q. Do you recognize that document?  9 A. Yes, I do.  10 Q. And is that a document that came  11 from Ethicon's files?  12 A. Yes, it is.  13 Q. Is it a document that you relied  14 upon?  15 A. Yes, it is.  16 Q. And who's Meng Chen?  17 A. She is an associate medical  18 director.  19 Q. And Carolyn Brennan, who appears to  20 be a manager of women's health and urology,  21 worldwide customer quality?  22 A. Correct.  23 Q. This, again, is addressing this  24 particle loss issue?  25 A. Yes, it is.</p>	<p style="text-align: right;">Page 484</p> <p>1 THE WITNESS: No. I did not  2 see any testing.  3 BY MR. GOSS:  4 Q. Did you find anything like that in  5 their files?  6 A. No, I did not.  7 Q. If there was no such analysis in  8 their files, there was not any such analysis  9 done, to make a statement that it was  10 remote, would that be a violation of the  11 standard in the industry?  12 MS. SUTHERLAND: Objection.  13 THE WITNESS: Yes, it would.  14 BY MR. GOSS:  15 Q. Okay. I have two more, and then we  16 can break. I'm handing you what's been  17 marked as Exhibit 45.  18 A. Thank you.  19 (Exhibit Number 45 was  20 marked for identification.)  21 BY MR. GOSS:  22 Q. This is another one of those email  23 chains.  24 A. Yes.  25 Q. So we start from the back. First</p>
<p style="text-align: right;">Page 483</p> <p>1 MS. SUTHERLAND: Objection.  2 BY MR. GOSS:  3 Q. And Meng Chen, isn't she an  4 associate medical director?  5 A. Yes, she is.  6 Q. And Meng Chen responds -- with  7 addressing this issue responds to Cary  8 Brennan there in the middle of the page.  9 She says, "After careful review of the  10 available information in the files and  11 information provided by the manufacturing  12 site, the business unit medical director and  13 I feel that the possibility for the tiny  14 tape fragments observed in these five cases  15 to cause adverse consequences in a patient,  16 a device administrator or others should be  17 considered remote. The presence of tiny  18 tape fragments in the product package is not  19 expected to change the product safety  20 profile."  21 Does it -- first of all, did you  22 see anywhere where they did any testing, or  23 there was any analysis done at all to  24 determine that it was remote?  25 MS. SUTHERLAND: Objection.</p>	<p style="text-align: right;">Page 485</p> <p>1 of all, let's identify some of these people  2 in this document. First of all, is this a  3 document that came from Ethicon's files?  4 A. Yes, it is.  5 Q. Is it a document that you reviewed  6 with respect to your opinions?  7 A. Yes, it is.  8 Q. Is it a document that you relied  9 upon in forming your opinions?  10 A. Yes, it is.  11 Q. And looks like this is another  12 document involving Darlene Kyle. Remember I  13 said earlier, she was an analyst, worldwide  14 customer quality.  15 Do you see that on the last page?  16 A. Yes, I do. Thank you.  17 Q. And also I see Meng Chen's also  18 copied on these emails. We just talked  19 about her.  20 A. Correct.  21 Q. And Shalot Armstrong. She's a  22 manager -- it appears manager -- I think  23 she's a manager in quality systems and  24 compliance.  25 Do you think that's true?</p>



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<p style="text-align: right;">Page 486</p> <p>1 A. That sounds right, to the best of 2 my recollection. 3 Q. Okay. And they're talking about -- 4 if you go to the bottom of page 1, and they 5 ask -- Darlene's asking Carlos Lugo-Ponce -- 6 they're discussing this issue about whether 7 or not it's safe despite small pieces of 8 mesh that are being found in the packaging. 9 Do you see that? 10 A. Yes, I do. 11 Q. And what I want to ask you about is 12 Carlos Lugo-Ponce's response at the top 13 there is "Darlene, First, I recommend a 14 meeting rather than an email chain." And 15 then he talks about at the bottom still 16 needing "a detailed understanding of how 17 this happens in the manufacturing floor, 18 what defect classification this is, and how 19 frequent this is." 20 He's talking about -- is he talking 21 about the product? 22 MS. SUTHERLAND: Objection. 23 THE WITNESS: Yes, he is. 24 BY MR. GOSS: 25 Q. Is he talking about a</p>	<p style="text-align: right;">Page 488</p> <p>1 THE WITNESS: No, I have not. 2 BY MR. GOSS: 3 Q. Okay. Well, let me -- did the 4 company have a corporate policy regarding 5 careful communications? 6 MS. SUTHERLAND: Objection. 7 THE WITNESS: Yes, it did. 8 (Exhibit Number 46 was 9 marked for identification.) 10 /// 11 BY MR. GOSS: 12 Q. I'm handing you what's been marked 13 as Exhibit 46. And is this a document that 14 you reviewed in -- is this a document from 15 Ethicon's files? 16 A. Yes, it is. 17 Q. Is this a document that you 18 reviewed in connection with forming your 19 opinions in this case? 20 A. Yes, it is. 21 Q. And it's entitled "Introduction to 22 HCC: Key Takeaways and Contacts." And it's 23 talking about mission statement for HCC. By 24 the way, do you know what HCC is? 25 A. Yes. It stands for healthcare</p>
<p style="text-align: right;">Page 487</p> <p>1 product-related issue? 2 A. Yes. 3 MS. SUTHERLAND: Objection. 4 BY MR. GOSS: 5 Q. And product performance issue? 6 A. Yes. Product quality issue. 7 Q. Okay. And his first sentence there 8 is "First, I recommend a meeting rather than 9 an email chain." 10 Do you see that? 11 A. Yes. 12 Q. Now, after this email -- now we 13 just talked about how we didn't see much 14 going on with respect to where Meng Chen 15 came up with her determination that it was 16 remote. 17 A. Yes. 18 MS. SUTHERLAND: Objection. 19 BY MR. GOSS: 20 Q. After this email that we're talking 21 about, which is Exhibit 45, where Carlos 22 says let's do meetings, not an email chain, 23 you didn't see much more after that, or did 24 you? 25 MS. SUTHERLAND: Objection.</p>	<p style="text-align: right;">Page 489</p> <p>1 compliance. 2 Q. Okay. And we just talked about the 3 email where they were talking about the 4 product and product performance, and Carlos 5 Lugo said let's not do this in writing? 6 A. Yes. 7 MS. SUTHERLAND: Objection. 8 BY MR. GOSS: 9 Q. Let's have meetings? 10 MS. SUTHERLAND: Objection. 11 THE WITNESS: Yes. 12 BY MR. GOSS: 13 Q. And let me turn you to the Bates 14 stamp 465 at the bottom, the last three 15 numbers are 465. 16 A. Yes, I have it. 17 Q. And the careful communications. 18 Do you see that? 19 A. Yes, I do. 20 Q. And it says at the bottom talking 21 about "With regards to electronic 22 communications." 23 Do you see that? 24 A. Yes. 25 Q. "Including email and text</p>

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<p style="text-align: right;">Page 490</p> <p>1 message" -- let me start over.  2 "With regards to electronic  3 communications, including email and text  4 messaging, it is important to note no  5 product claims should ever be communicated  6 via email or text messaging."  7 Do you see that?  8 A. Yes.  9 Q. And was what they were talking  10 about in those last emails, were they  11 product claims?  12 MS. SUTHERLAND: Objection.  13 THE WITNESS: It relates to  14 product claims, yes.  15 BY MR. GOSS:  16 Q. Okay. And the company's policy is  17 this: "Be very cognizant of what you're  18 communicating electronically as any and all  19 forms of communications can be discoverable  20 in a court of law."  21 Did I read that right?  22 A. Yes.  23 MS. SUTHERLAND: Objection.  24 BY MR. GOSS:  25 Q. Is that this company's careful</p>	<p style="text-align: right;">Page 492</p> <p>1 remote?  2 MS. SUTHERLAND: Objection.  3 THE WITNESS: No.  4 MR. GOSS: Okay. Let's take a  5 break.  6 THE VIDEOGRAPHER: With the  7 approval of counsel, going off the  8 record. The time is approximately  9 8:18 p.m.  10 (Recess taken from  11 8:18 p.m. to 8:30 p.m.)  12 MR. GOSS: Let's go on the  13 record.  14 It's been a long day. I've  15 looked at my notes. I think I probably  16 have time left of almost three hours. I  17 think that I would probably, from the  18 looks of my notes, get close to using  19 all that. It's now -- is it 8:30 our  20 time? 8:30 California time, 10:30  21 Dallas time.  22 The court reporter has told me  23 she doesn't have three hours left in  24 her. I think I believe her. And I've  25 talked with the witness.</p>
<p style="text-align: right;">Page 491</p> <p>1 communication policy?  2 A. Yes. It's a part of it, yes.  3 Q. I mean, should a reasonable and  4 prudent manufacturer be concerned about its  5 claims, its product claims and complaints by  6 customers, when handling those complaints,  7 should they be concerned about what's going  8 to be discovered in a court of law?  9 MS. SUTHERLAND: Objection.  10 THE WITNESS: The concern  11 should be about addressing the claims  12 and taking the appropriate corrective  13 and preventive actions.  14 BY MR. GOSS:  15 Q. And does it appear to you based  16 upon your review of the file and -- that the  17 people in that email chain that they heeded  18 Carlos Lugo's instructions about no more  19 emails?  20 MS. SUTHERLAND: Objection.  21 Calls for speculation.  22 BY MR. GOSS:  23 Q. Did you see any further emails  24 where they were explaining, for example, how  25 they made the determination that it was</p>	<p style="text-align: right;">Page 493</p> <p>1 Peggy, you can be made  2 available next Thursday or Friday for  3 two-and-a-half hours.  4 THE WITNESS: That's correct.  5 MR. GOSS: Okay. I'm  6 available. I understand the doctor's  7 lawyer will make somebody available, and  8 I understand from you, Kari, that you  9 have a firm retreat, but you will try to  10 find coverage.  11 MS. SUTHERLAND: I will do  12 whatever I can to find coverage. Would  13 you object if, worst-case scenario, we  14 had to have somebody cover it by phone  15 instead of being here?  16 MR. GOSS: I don't care.  17 That's fine. That's fine. Truthfully,  18 I would do it by phone if I didn't have  19 to hand exhibits.  20 MS. SUTHERLAND: And as I  21 understand it, you are taking the  22 position that defense counsel is limited  23 to the time that I had left from my six  24 hours, which I think the videographer  25 told me is eight minutes; is that</p>

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<p style="text-align: right;">Page 494</p> <p>1 correct?</p> <p>2 MR. GOSS: Right.</p> <p>3 MS. SUTHERLAND: All right.</p> <p>4 And I would just note an objection to</p> <p>5 that, that plaintiffs did not</p> <p>6 cross-notice this deposition. I had no</p> <p>7 notice that this was going to be a trial</p> <p>8 deposition. I certainly didn't prepare</p> <p>9 for a trial cross-exam, and so I would</p> <p>10 preserve whatever objection might</p> <p>11 possibly be available to me under Texas</p> <p>12 law to come back and do a thorough</p> <p>13 cross-exam of the witness, either me or</p> <p>14 somebody from the trial team.</p> <p>15 MR. GOSS: I note your</p> <p>16 objection. I don't agree with it under</p> <p>17 Texas law. We didn't have to</p> <p>18 cross-notice it. Anyway, we don't have</p> <p>19 to argue about that. I got your</p> <p>20 objection.</p> <p>21 MS. SUTHERLAND: Yeah. It is</p> <p>22 what it is. I had my marching orders to</p> <p>23 get that on the record, and I have.</p> <p>24 MR. GOSS: You've got to tell</p> <p>25 your local -- anyway, we don't need to</p>	<p style="text-align: right;">Page 496</p> <p>1 REPORTER'S CERTIFICATE</p> <p>2</p> <p>3 The undersigned Certified Shorthand</p> <p>4 Reporter licensed in the State of California</p> <p>5 does hereby certify:</p> <p>6 That the foregoing deposition was</p> <p>7 taken before me at the time and place</p> <p>8 therein set forth, at which time the witness</p> <p>9 was duly sworn by me;</p> <p>10 That the testimony of the witness</p> <p>11 and all objections made at the time of the</p> <p>12 examination were recorded stenographically</p> <p>13 by me and were thereafter transcribed, said</p> <p>14 transcript being a true copy of my shorthand</p> <p>15 notes thereof.</p> <p>16 I further declare that I have no</p> <p>17 interest in the outcome of the action.</p> <p>18 In witness whereof, I have</p> <p>19 subscribed my name this 30th day of March,</p> <p>20 2016.</p> <p>21</p> <p>22 _____</p> <p>23 LISA MOSKOWITZ</p> <p>24 CSR 10816, RPR, CRR, CLR</p> <p>25 NCRA Realtime Systems Administrator</p>
<p style="text-align: right;">Page 495</p> <p>1 get into that. It's been a long day.</p> <p>2 Thanks, everybody. I think we all</p> <p>3 cooperated, and obviously, I'm not</p> <p>4 passing the witness. We're adjourned.</p> <p>5 MS. SUTHERLAND: Right. And as</p> <p>6 soon as I know which day will work for</p> <p>7 coverage, I will let everybody know.</p> <p>8 MR. GOSS: Okay. Yeah. And</p> <p>9 just so we're all clear, I don't</p> <p>10 think -- I'm certain that I'm not going</p> <p>11 to convince anybody to come take my</p> <p>12 place.</p> <p>13 MS. SUTHERLAND: That's my</p> <p>14 fear.</p> <p>15 MR. GOSS: Obviously, I don't</p> <p>16 have any problem with switching out</p> <p>17 lawyers and all that. I understand.</p> <p>18 Okay. All right. Thank you.</p> <p>19 (Whereupon the deposition</p> <p>20 adjourned at 8:33 p.m.)</p> <p>21</p> <p>22</p> <p>23</p> <p>24</p> <p>25</p>	<p style="text-align: right;">Page 497</p> <p>1 LAWYER'S NOTES</p> <p>2 PAGE LINE</p> <p>3 _____</p> <p>4 _____</p> <p>5 _____</p> <p>6 _____</p> <p>7 _____</p> <p>8 _____</p> <p>9 _____</p> <p>10 _____</p> <p>11 _____</p> <p>12 _____</p> <p>13 _____</p> <p>14 _____</p> <p>15 _____</p> <p>16 _____</p> <p>17 _____</p> <p>18 _____</p> <p>19 _____</p> <p>20 _____</p> <p>21 _____</p> <p>22 _____</p> <p>23 _____</p> <p>24 _____</p> <p>25 _____</p>